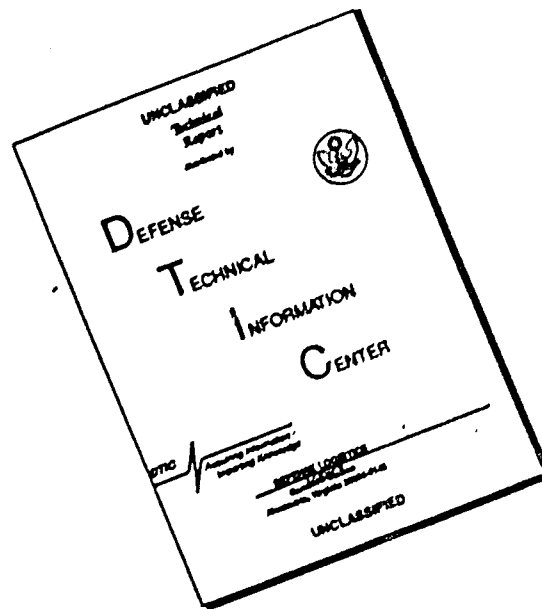


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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

WEST AFRICAN AND SELECTED ISLAND COASTAL MARINE AREAS.

VOLUME 2.

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area.

This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present) and Percentage Frequency of Sky Obscured. Amounts are in Okas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

CONTENTS		
AREA	NAME	PAGES
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12	Accra	238-316
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Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

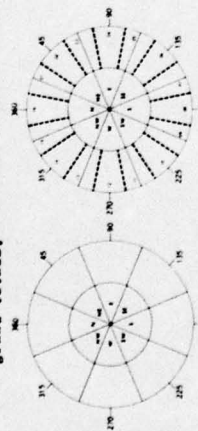


Fig 1 The 8 point direction system.

Fig 2 The 16 point direction system superimposed on the 8 point system.

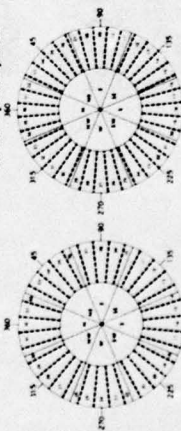


Fig 3 The 32 point direction system superimposed on the 8 point system.

Fig 4 The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP > 40° F)	FOG (WITHOUT PRECIPITATION)
94	1/2 ≤ VV < 1	28	FOG (WITHOUT PRECIPITATION) PAST HOUR
95	1 ≤ VV < 2	80-82, (83-84 IF TEMP > 40° F) 50-55, 58-59	RAIN SHOWERS DRIZZLE
96	2 ≤ VV < 5	56-57 66-67	FREEZING PRECIPITATION
97	5 ≤ VV < 10	70-75, 85-86 (68-69, 83-84, 95, 97 IF TEMP ≤ 40° F)	SNOW
98	10 ≤ VV < 25	76-79	OTHER FROZEN PRECIPITATION
99	VV ≥ 25	87-90 93-94 96, 99	NO PRECIPITATION AT OB TIME

NOTE: < means less than; > means greater than; ≤ means less than or equal to; ≥ means greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75	61-70
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25	
			24	>11.75 to 12.25}		41	>20.25 to 20.75	
			25	>12.25 to 12.75}		42	>20.75 to 21.25	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}	41-48	43	>21.25 to 21.75	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25	
			29	>14.25 to 14.75}		45	>22.25 to 22.75	
						46	>22.75 to 23.25	
						47	>23.25 to 23.75	
						48	>23.75 to 24.25	
						49	>24.25 to 24.75	
						50	>24.75 to 25.25	
						51	>25.25 to 25.75	
						52	>25.75 to 26.25	
						53-99	>26.25 to 49.75}	≥87

Indeterminate=INDET

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

JANUARY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST PLWG SNOW	NO SIG WEA	
N	.2	.1	.2	.0	.0	.0	.0	.5	.0	.9	3.3	.0	5.5	.8	89.0	
NE	.1	.0	.1	.0	.0	.0	.0	.2	.0	.3	3.8	.1	6.1	1.1	86.4	
E	.4	.0	.0	.0	.0	.0	.0	.4	.0	.9	6.0	.0	12.1	3.1	77.4	
SE	2.4	.2	.0	.0	.0	.0	.0	2.6	.0	6.1	3.6	.0	18.6	.8	69.8	
S	.7	.5	.0	.0	.0	.0	.0	1.2	.0	5.0	1.7	.7	11.8	.7	79.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	1.9	.0	6.3	.6	86.5	
W	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.8	2.9	.0	6.4	.8	87.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	3.2	.0	5.0	.7	89.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.0	.0	.0	.2	.0	1.7	2.3	.0	14.1	2.0	79.8	
TOT PCT	.2	*	.1	.0	.0	.0	.0	.3	*	1.5	3.2	*	7.1	1.0	86.9	
TOT OBS:	6553															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.1	.0	.1	.0	.0	.0	.0	.2	.1	2.6	2.7	.0	6.4	1.3	86.7
06009	.2	.1	.1	.0	.0	.0	.0	.4	.2	3.1	4.7	.1	5.5	1.2	84.9
12015	.2	.0	.1	.0	.0	.0	.0	.3	.0	.2	2.6	.1	7.9	.7	88.5
18021	.2	.1	.0	.0	.0	.0	.0	.3	.0	.3	4.6	.0	8.5	1.1	85.3
TOT PCT	.2	*	.1	.0	.0	.0	.0	.3	.1	1.5	3.6	*	7.1	1.1	86.3
TOT OBS:	7290														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	4.3	17.2	7.6	.2	.0	.0		29.3	8.2	25.8	29.9	28.6	29.8	32.5	40.8	31.6	23.5
NE	2.1	10.8	5.4	.4	*	.0		18.7	8.9	13.0	12.0	16.6	24.3	26.4	18.0	17.3	15.7
E	1.2	3.1	.8	.1	.0	.0		5.1	7.1	3.7	1.5	4.2	8.0	5.7	1.9	5.3	6.6
SE	1.0	1.4	.1	*	.0	.0		2.5	4.8	2.8	.0	2.1	2.2	2.2	2.9	2.5	4.1
S	1.6	1.5	.1	.0	.0	.0		3.2	4.1	4.9	3.4	2.6	2.6	2.0	.0	2.7	5.9
SW	1.5	2.1	.2	.0	.0	.0		3.8	4.6	6.6	3.6	4.1	2.5	1.4	3.4	2.9	6.4
W	2.5	5.0	.3	.0	.0	.0		7.8	5.2	10.4	15.4	9.7	5.7	4.2	8.2	7.3	8.9
NW	3.7	13.0	2.1	*	.0	.0		18.8	6.5	19.1	20.7	20.6	16.9	18.3	18.7	19.7	14.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	13.6	13.5	11.5	8.0	7.3	6.1	10.7	14.0
TOT OBS	3262	6161	1885	77	1	0	11386		6.5	2243	133	2193	1010	2382	147	2275	1003
TOT PCT	28.6	54.1	16.6	.7	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	12.8	14.9	1.6	.0	.0		29.3	8.2	26.1	29.0	32.9	29.1
NE	7.1	9.9	1.6	.1	.0		18.7	8.9	13.0	19.0	25.9	16.8
E	3.0	1.8	.3	*	.0		5.1	7.1	3.6	5.4	5.5	5.7
SE	2.0	.5	*	.0	.0		2.5	4.8	2.6	2.1	2.2	3.0
S	2.8	.4	.0	.0	.0		3.2	4.1	4.8	2.6	1.8	3.7
SW	3.2	.7	*	.0	.0		3.8	4.6	6.4	3.6	1.5	4.0
W	5.8	2.0	*	.0	.0		7.8	5.2	10.7	8.4	4.5	7.8
NW	11.1	7.5	.2	.0	.0		18.8	6.5	19.2	19.4	18.3	18.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	13.6	10.4	7.3	11.7
TOT OBS	6046	4306	425	9	0	11386		6.5	2376	3203	2529	3278
TOT PCT	58.4	37.8	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

JANUARY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURLY	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	13.6	18.2	55.0	12.9	.4	.0	.0	.0	5.9	100.0	2376
0600Z	10.4	16.7	55.6	16.5	.7	.0	.0	.0	6.6	100.0	3203
1201Z	7.3	15.7	53.3	22.5	1.2	.0	.0	.0	7.5	100.0	2529
1802Z	11.7	20.5	52.7	14.7	.4	.0	.0	.0	6.1	100.0	3278
TOT	1224	2038	6161	1885	77	1	0	6.5			11386
PCT	10.6	17.9	54.1	16.6	.7	.0	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	20.6	4.6	5.4	2.6		2.4
NE	9.9	2.3	2.4	1.4		2.3
E	1.7	.4	.5	.3		2.5
SE	.7	.2	.4	.2		3.1
S	1.2	.2	.4	.2		2.4
SW	1.8	.4	.4	.2		2.1
W	4.6	1.4	1.4	.6		2.5
NW	13.5	3.2	4.0	1.5		2.3
VAR	.0	.0	.0	.0		.0
CALM	7.0	1.2	1.6	.8		2.1
TOT OBS	3052	695	877	385	5009	2.4
TOT PCT	60.9	13.9	17.5	7.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.4	.8	.6	.2	.1	.4	1.2	30.3	
NE	.0	.0	.0	.2	.4	.2	.2	.1	.2	.3	14.2	
E	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	2.5	
SE	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.3	
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	1.7	
SW	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	2.5	
W	.0	.0	.0	.1	.3	.2	.1	.1	.1	.1	7.2	
NW	.1	.0	.1	.2	.7	.4	.1	.0	.2	.6	19.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.3	.2	.1	.0	.0	.4	9.5	
TOT OBS	13	0	8	57	139	94	43	25	44	138	4448	5009
TOT PCT	.3	.0	.2	1.1	2.8	1.9	.9	.5	.9	2.8	88.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6
>5000	2.8	3.9	4.1	4.1	4.1	4.1	4.1	4.1
>3500	3.4	4.7	5.0	5.0	5.0	5.0	5.0	5.0
>2000	4.7	6.5	6.9	6.9	6.9	6.9	6.9	6.9
>1000	6.6	9.1	9.5	9.5	9.5	9.5	9.5	9.5
>600	7.4	10.1	10.6	10.6	10.6	10.6	10.6	10.6
>300	7.5	10.3	10.8	10.8	10.8	10.8	10.8	10.8
>150	7.5	10.3	10.8	10.8	10.8	10.8	10.8	10.8
>0	7.5	10.4	11.0	11.0	11.0	11.0	11.0	11.0
TOTAL	415	572	607	607	607	607	607	608

TOTAL NUMBER OF OBS: 5524

PCT FREQ NH <5/8: 89.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
60.3	9.8	7.9	5.9	4.3	2.6	2.9	2.2	3.8	.2	5759

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

JANUARY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	*	.0	*	*	*	*	.0	.0	.0	.1
	TOT %	*	.0	*	.0	*	*	*	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.5	.3	.1	.1	*	*	.1	.5	.0	*	1.8	
	TOT %	.6	.3	.1	.1	*	*	.1	.5	.0	*	1.8	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.3	.2	.2	.1	.1	.2	.3	.0	.4	2.3	
	TOT %	.6	.3	.2	.2	.1	.1	.2	.3	.0	.4	2.3	
2<5	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.6	.5	.1	.1	.1	*	.2	.3	.0	.4	2.5	
	TOT %	.6	.5	.1	.1	.1	*	.2	.3	.0	.4	2.5	
5<10	PCP	.1	*	*	*	*	.0	.0	.0	.0	.0	.2	
	NO PCP	6.2	4.1	1.2	.7	.7	1.4	2.2	4.6	.0	3.2	24.3	
	TOT %	6.3	4.1	1.2	.7	.8	1.4	2.2	4.6	.0	3.2	24.5	
10+	PCP	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	NO PCP	24.3	10.9	1.7	.8	1.3	1.8	5.8	16.2	.0	5.9	68.6	
	TOT %	24.3	10.9	1.7	.8	1.3	1.8	5.8	16.2	.0	5.9	68.7	
TOT OBS													6547
TOT PCT		32.4	16.2	3.4	1.9	2.3	3.4	8.6	21.9	.0	9.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	.0	*	*	*	*	*	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	.0	*	*	*	*	.0	*	.1	
1/2<1	0-3	.1	.1	.1	*	*	*	*	.1	.0	*	.4	
	4-10	.3	.1	.1	*	.0	*	.1	.3	.0	.0	.9	
	11-21	.1	.1	.0	.0	.0	.0	.0	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.3	.1	.1	*	*	.1	.4	.0	*	1.4	
1<2	0-3	.2	*	*	.1	.1	*	.1	.1	.0	.4	.9	
	4-10	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	1.0	
	11-21	.1	*	*	.0	.0	.0	*	*	.0	.0	.2	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.5	.2	.2	.2	.1	.1	.1	.2	.0	.4	2.0	
2<5	0-3	.1	.1	.1	.1	.1	.1	.2	.2	.0	.8	1.7	
	4-10	.5	.4	.1	.1	.1	.1	.2	.3	.0	.0	1.8	
	11-21	.3	.1	.1	*	*	.0	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	.7	.3	.2	.2	.2	.4	.5	.0	.8	4.1	
5<10	0-3	1.5	.7	.4	.3	.4	.6	.9	1.3	.0	4.0	10.1	
	4-10	3.9	3.2	.9	.4	.4	.7	1.3	3.3	.0	.0	14.0	
	11-21	1.2	1.1	.2	*	*	.1	.1	.3	.0	.0	3.1	
	22+	.1	.1	*	.0	.0	.0	.0	*	.0	.0	.2	
	TOT %	6.6	5.1	1.5	.7	.9	1.4	2.3	4.9	.0	4.0	27.4	
10+	0-3	2.7	1.1	.4	.3	.5	.7	1.4	2.5	.0	6.0	15.7	
	4-10	12.9	6.2	1.1	.5	.6	1.2	3.7	10.3	.0	.0	36.5	
	11-21	6.3	3.5	.3	*	*	.1	.2	1.9	.0	.0	12.3	
	22+	.1	.3	*	*	.0	.0	.0	*	.0	.0	.4	
	TOT %	22.0	11.0	1.8	.9	1.2	2.0	5.3	14.7	.0	6.0	64.9	
TOT OBS													8819
TOT PCT		30.5	17.3	3.9	2.0	2.4	3.7	8.2	20.8	.0	11.2	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1857-1973

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AREA 0009 CONAKRY
9.1N 13.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.0	.3	.6	1.9	1.7	.9	.3	.6	2.4	9.1	90.9	1388
06009	.2	.0	.2	1.3	1.8	1.8	.6	.5	.4	2.4	11.2	88.8	1332
12015	.1	.0	.1	1.3	2.0	1.8	.8	.5	1.1	2.6	10.3	89.7	1519
18021	.1	.0	.0	1.2	2.6	1.9	1.2	.7	1.0	3.6	12.2	87.8	1456
TOT	13	0	8	62	146	102	49	28	46	156	610	5085	5695
PCT	.2	.0	.1	1.1	2.6	1.8	.9	.5	.8	2.7	10.7	89.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	1.2	1.4	4.9	27.7	64.5	2169
06009	.1	2.4	1.7	4.6	29.8	61.4	2555
12015	.1	1.2	1.9	2.8	27.9	71.0	2216
18021	.1	2.2	2.7	4.4	28.9	61.7	2623
TOT	11	174	188	401	2630	6159	9563
PCT	.1	1.8	2.0	4.2	27.5	64.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	.9	4.7	7.6	87.7	1346
06009	.2	.5	4.9	9.5	85.6	1278
12015	.1	.3	3.3	8.7	88.0	1480
18021	.1	.1	4.3	10.4	85.4	1420
TOT	13	24	235	500	4789	5524
PCT	.2	.4	4.3	9.1	86.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.0	.0	.0	1	*
85/89	.0	.0	.0	.1	.8	1.2	.4	.1	138	2.6
80/84	.0	.0	.2	1.0	4.3	14.0	11.8	2.3	1802	33.5
75/79	.0	.0	*	1.5	5.4	15.2	15.3	5.5	2306	42.9
70/74	.0	.0	.1	.8	3.4	5.4	6.4	2.3	988	18.4
65/69	.0	.0	.0	.1	.3	.7	1.2	.3	140	2.6
60/64	.0	.0	.0	.0	.0	*	.0	*	3	.1
TOTAL	0	0	15	193	766	1960	1879	565	5378	100.0
PCT	.0	.0	.3	3.6	14.2	36.4	34.9	10.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
.4	.3	.1	.1	.1	.1	.3	.6	.0	.5
7.1	3.3	1.3	1.0	1.0	1.7	4.4	8.4	.0	5.3
14.3	7.6	1.4	.5	.7	1.2	3.4	9.2	.0	4.5
9.3	3.8	.6	.1	.3	.1	.5	3.2	.0	.5
1.7	.5	*	*	*	*	*	.3	.0	*
.1	*	.0	.0	.0	.0	.0	.0	.0	.0
32.8	15.4	3.3	1.8	2.1	3.2	8.7	21.8	.0	10.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	83	82	78	71	68	64	77.3	2586
06009	87	83	82	78	70	67	63	77.0	3402
12015	94	87	85	80	72	68	61	79.1	2633
18021	91	86	84	79	72	69	65	78.7	3422
TOT	94	86	83	79	71	68	61	78.0	12043

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	6.7	29.3	46.7	16.4	8.2	1446		
06009	.0	2.4	8.7	30.9	42.3	15.6	8.1	1487		
12015	.0	8.0	20.5	39.6	26.3	5.5	7.5	1486		
18021	.0	3.0	18.7	44.7	26.9	6.8	7.6	1538		
TOT	0	214	819	2160	2109	655	78	5957		

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1897-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	% FOG	WU FOG
11/13	.0	.0	.0	.0	.2	.1	.1	.0	17	.0	.3
9/10	.0	.0	.0	.0	.2	.1	.0	.0	27	.0	.4
7/9	.0	.0	.0	.1	.3	.2	.2	.0	57	.0	.8
6	.0	.0	.0	.1	.2	.2	.2	.0	60	.1	.8
5	.0	.0	.0	.2	.6	.5	.5	.0	125	.1	1.8
4	.0	.0	.1	.6	.8	.7	.5	.0	180	.2	2.6
3	.0	.0	.3	.9	1.1	1.2	.5	.0	266	.1	3.9
2	.0	.1	.7	1.3	2.7	2.2	.3	.0	483	.4	6.9
1	.0	.1	1.0	2.6	3.7	3.0	.3	.0	718	.3	10.6
0	.0	.3	1.3	3.8	7.0	5.1	.1	.0	1164	.7	16.9
-1	.0	.2	1.4	4.6	8.2	4.8	.0	.0	1264	.8	18.3
-2	.0	.1	1.0	3.3	6.9	3.2	.0	.0	962	.5	14.1
-3	.0	.2	.8	2.4	4.6	1.0	.0	.0	593	.2	8.8
-4	.0	.1	.6	1.4	2.2	.6	.0	.0	323	.2	4.7
-5	.0	.0	.3	.8	1.3	.2	.0	.0	178	.1	2.6
-6	.0	.0	.2	.6	.4	.1	.0	.0	88	.0	1.3
-7/-8	.0	.0	.2	.5	.3	.0	.0	.0	69	.0	1.0
-9/-10	.0	.0	.1	.1	.0	.0	.0	.0	17	.0	.2
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOT-AL	5		534		2690		193		6594	250	6344
PCT	.1	86	1538	1540	23.4	2.9	.1		100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	4.0	.1	.0	.0	.0	6.9	.9	1.9	.0	.0	.0	.0	2.8
1-2	1.5	12.0	3.0	.0	.0	.0	16.6	.4	4.7	.8	.0	.0	.0	5.0
3-4	.1	3.6	5.2	.0	.0	.0	9.0	.1	1.8	2.0	.1	.0	.0	3.9
5-6	.0	.4	2.0	.1	.0	.0	2.5	.0	.1	.9	.1	.0	.0	1.1
7	.0	.0	.7	.2	.0	.0	.9	.0	.1	.6	.2	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.4	20.1	11.2	.3	.0	.0	36.0	1.4	8.6	4.3	.6	.0	.0	14.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.6	.3	.1	.0	.0	.0	.0	.4
1-2	.1	.8	.0	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.5	.3	.1	.0	.0	2.4	.3	.5	.0	.0	.0	.0	.9

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AKFA 0009 CONAKRY
4.1N 15.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.4	.0	.0	.0	.0	1.0	.8	.0	.0	.0	.0	.0	.0	1.4
1-2	.0	.4	.0	.0	.0	.0	.4	.2	.9	.0	.0	.0	.0	.0	1.2
3-4	.1	.0	.1	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.9	.1	.0	.0	.0	1.7	1.1	1.5	.1	.0	.0	.0	2.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.7	1.4	.0	.0	.0	.0	3.2	2.2	3.0	.0	.0	.0	.0	5.2	
1-2	.4	3.2	.1	.0	.0	.0	3.7	1.3	9.1	1.3	.0	.0	.0	11.7	
3-4	.1	.0	.1	.0	.0	.0	.8	.1	1.9	1.1	.0	.0	.0	3.1	
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.2	.4	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	5.4	.2	.0	.0	.0	7.8	3.7	14.2	3.0	.1	.0	.0	20.9	87.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.2	11.4	.2	.0	.0	.0	36.8	
1-2	5.2	30.0	4.9	.0	.0	.0	40.1	
3-4	.5	7.7	8.1	.1	.0	.0	16.4	
5-6	.1	.0	3.2	.2	.0	.0	4.3	
7	.0	.0	1.3	.3	.0	.0	1.7	
8-9	.0	.0	.1	.0	.0	.0	.3	
10-11	.1	.0	.0	.0	.0	.0	.2	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.1	50.1	17.8	1.0	.0	.0	100.0	3276

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<6	6-7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.1	17.9	11.6	3.6	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1745	2
6-7	.1	3.0	5.6	3.0	1.7	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	644	4
8-9	.1	1.4	2.3	2.3	1.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	375	5
10-11	.0	1.5	1.0	.8	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	4
12-13	.0	.0	1.4	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	4
>13	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	7
INDET	13.9	7.5	3.8	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1177	1
TOTAL	863	1344	1099	557	271	90	38	13	4	2	1	0	0	0	0	0	4282	3
PCT	20.2	31.4	25.7	13.0	6.3	2.1	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1856-1973

FEBRUARY

AREA 0009 CUNAKKY
9.1N 15.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.3	.1	.2	.0	.0	.0	.0	.6	.1	.5	2.4	.0	5.8	.3	90.4
NE	.4	.3	.0	.0	.0	.0	.0	.7	.7	1.4	1.9	.0	8.3	.1	87.0
E	.9	2.0	.0	.0	.0	.0	.0	2.8	.9	3.4	5.7	.0	9.4	1.7	76.1
SE	3.1	.0	.0	.0	.0	.0	.0	3.1	.0	4.7	5.6	.0	9.7	.0	78.2
S	.8	.0	.0	.0	.0	.0	.0	.8	.0	4.2	4.6	.0	8.8	.0	82.0
SW	.2	.0	.2	.0	.0	.0	.0	.3	.0	1.6	3.4	.0	8.3	.0	86.5
W	.3	.0	.1	.0	.0	.0	.0	.4	.2	2.0	3.4	.0	6.5	.1	87.4
NW	.2	.0	.1	.0	.0	.0	.0	.4	.1	1.0	3.1	.0	6.6	.3	88.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.2	.0	.0	.0	.0	.2	.2	1.0	4.2	.2	15.3	.9	78.0
TOT PCT	.3	.1	.1	.0	.0	.0	.0	.5	.2	1.2	3.0	*	7.3	.3	87.5
TOT OBS:	6746														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.5	.0	.1	.0	.0	.0	.0	.0	.2	2.4	3.3	.0	6.7	.2	86.9
0600	.3	.1	.1	.0	.0	.0	.0	.5	.1	2.0	4.5	.1	6.9	.3	85.7
1200	.3	.2	.1	.0	.0	.0	.0	.5	.3	.0	2.7	.1	8.3	.2	87.9
1800	.2	.1	.2	.0	.0	.0	.0	.5	.2	.5	3.7	.0	8.0	.5	86.7
TOT PCT	.3	.1	.1	.0	.0	.0	.0	.5	.2	1.2	3.6	*	7.5	.3	86.8
TOT OBS:	7450														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	3.2	14.3	8.2	.4	.0	.0	26.1	9.1	21.4	13.1	23.9	26.9	33.5	26.7	28.0	21.2		
NE	1.1	4.9	2.4	.2	.0	.0	8.5	8.8	5.8	1.9	7.1	12.9	11.5	9.7	8.7	7.0		
E	.6	1.2	.2	.0	.0	.0	2.0	6.2	1.6	1.4	1.8	3.6	2.4	.9	1.5	2.0		
SE	.7	.9	.1	.0	.0	.0	1.7	4.8	1.6	1.6	1.4	3.2	1.6	.9	1.9	1.4		
S	1.1	1.8	.0	.0	.0	.0	2.9	4.6	4.2	3.6	3.2	1.9	1.1	.5	2.6	5.6		
SW	1.5	3.8	.2	.0	.0	.0	5.5	5.3	8.2	8.3	5.5	3.8	2.8	3.3	4.7	8.9		
W	3.0	9.9	1.2	.0	.0	.0	14.1	6.1	17.1	23.3	14.7	12.1	10.2	12.8	12.6	18.9		
NW	4.8	21.3	5.4	.1	.0	.0	31.7	7.4	31.1	37.2	34.2	29.6	32.0	35.8	32.0	26.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	7.5						7.5	.0	9.1	9.7	8.3	6.0	4.7	8.2	8.0	8.4		
TOT OBS	2627	6510	1997	83	0	0	11217		2247	145	2131	982	2297	159	2239	1017		
TOT PCT	23.4	58.0	17.8	.7	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00 03	06 09	12 15	18 21
N	9.3	14.4	2.4	*	.0	26.1	9.1	20.9	24.9	33.1	25.9	
NE	3.4	4.4	.7	*	.0	8.5	8.8	5.5	8.9	11.4	8.1	
E	1.3	.6	.1	*	.0	2.0	6.2	1.5	2.3	2.3	1.7	
SE	1.4	.3	*	.0	.0	1.7	4.8	1.6	1.9	1.5	1.7	
S	2.4	.5	.0	.0	.0	2.9	4.6	4.2	2.8	1.1	3.5	
SW	4.1	1.4	*	.0	.0	5.5	5.3	8.2	5.0	2.9	6.0	
W	9.1	4.8	.1	.0	.0	14.1	6.1	17.5	13.9	10.4	14.6	
NW	15.4	15.3	1.0	.0	.0	31.7	7.4	31.5	32.7	32.3	30.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.5				.0	7.5	.0	9.1	7.5	5.0	8.1	
TOT OBS	6052	4670	491	4	0	11217	7.0	2392	3113	2456	3256	
TOT PCT	54.0	41.6	4.4	*	0		100.0	100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1924-1973AREA 0009 CONAKRY
9.1N 15.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	9.1	15.5	58.1	16.6	.7	.0	.0	6.8	100.0	2392
06004	7.3	14.9	59.1	17.6	.8	.0	.0	7.0	100.0	3113
12015	5.0	15.6	57.5	20.6	1.0	.0	.0	7.5	100.0	2456
18024	8.1	17.4	57.3	16.6	.5	.0	.0	6.7	100.0	3256
TOT	840	1787	6510	1997	83	0	0	7.0		11217
PCT	7.5	15.9	58.0	17.8	.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	18.7	3.3	4.3	2.4		2.2
NE	3.8	.8	1.1	.9		2.8
E	.7	.2	.2	.2		2.7
SE	.6	.2	.1	.1		1.8
S	1.1	.2	.1	.2		2.0
SW	2.5	.4	.6	.3		2.2
W	7.3	2.2	2.0	1.2		2.5
NW	23.0	5.0	5.6	3.0		2.3
VAR	.0	.0	.0	.0		.0
CALM	5.7	.7	.8	.6		1.6
TOT OBS	3265	671	766	400	5182	2.3
TOT PCT	63.4	12.9	14.8	8.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		OBS	
.1	*	*	.4	.8	.6	.5	.2	.2	.8	25.0	
*	.0	*	.1	.3	.3	*	.1	.1	.2	5.5	
*	.0	.0	*	.1	*	*	.0	*	*	1.0	
.0	.0	.0	.0	*	*	.0	.0	.0	*	.8	
.0	.0	.0	*	.1	*	*	*	.0	.1	1.4	
.0	.0	.0	*	.1	*	*	*	*	.1	3.4	
.0	.0	*	.1	.4	.4	.2	*	.1	.4	11.0	
*	.0	.1	.6	1.4	1.0	.5	.3	.8	.8	31.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.0	*	.2	.3	.1	*	*	.1	7.0	
.8	1	11	68	172	138	70	35	41	130	4508	5182
.7	*	.2	1.3	3.3	2.7	1.4	.7	.8	2.5	87.0	100.0

TABLE 7

CUMULATIVE PCT FRFQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.2	3.1	3.4	3.4	3.4	3.4	3.4	3.4
>5000	2.7	3.7	4.0	4.0	4.0	4.0	4.0	4.0
>3500	3.6	5.0	5.3	5.3	5.3	5.3	5.3	5.3
>2000	5.4	7.4	7.9	7.9	7.9	7.9	7.9	7.9
>1000	7.9	10.5	11.1	11.1	11.1	11.1	11.1	11.1
>600	8.7	11.8	12.4	12.4	12.4	12.4	12.4	12.4
>300	8.9	12.0	12.6	12.6	12.6	12.6	12.6	12.6
>150	8.9	12.0	12.6	12.6	12.6	12.6	12.6	12.6
>0	8.9	12.1	12.7	12.7	12.7	12.7	12.7	12.8
TOTAL	503	683	719	720	720	722	722	724

TOTAL NUMBER OF OBS: 5666

PCT FREQ NH <5/8: 87.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
60.3	9.8	6.7	5.8	3.6	2.9	3.4	3.0	4.4	.1	5939

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1856-1973

FEBRUARY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	.0	*	*	*	*	.0	*	*	
	TOT %	*	*	.0	.0	*	*	*	*	.0	*	*	.1
1/2<1	PCP	.0	.0	.0	*	.0	*	*	.0	.0	.0	*	
	NO PCP	.3	.1	.1	.1	.1	.1	.3	.4	.0	*	1.3	
	TOT %	.3	.1	.1	.1	.1	.1	.3	.4	.0	*	1.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.5	.2	*	*	*	.1	.3	.5	.0	.2	1.9	
	TOT %	.5	.2	*	*	*	.1	.3	.5	.0	.2	1.9	
2<5	PCP	.0	.0	*	.0	*	*	.0	.0	.0	.0	*	
	NO PCP	.9	.2	*	*	*	.2	.5	1.2	.0	.5	3.6	
	TOT %	.9	.2	.1	*	*	.2	.5	1.2	.0	.5	3.6	
5<10	PCP	.1	*	.0	*	*	.0	*	.1	.0	.0	.2	
	NO PCP	5.5	1.8	.5	.4	.7	1.6	4.0	8.4	.0	1.9	24.9	
	TOT %	5.6	1.8	.5	.5	.7	1.6	4.0	8.4	.0	1.9	25.1	
10+	PCP	.1	*	*	.0	.0	.0	*	.1	.0	*	.3	
	NO PCP	20.4	4.4	.6	.6	1.0	2.4	8.8	25.0	.0	4.4	67.7	
	TOT %	20.5	4.5	.7	.6	1.0	2.4	8.8	25.1	.0	4.4	68.0	
TOT OBS		6737											
TOT PCT		27.7	6.8	1.3	1.2	1.9	4.4	13.9	35.7	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	*	*	.0	*	.1	
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	*	*	*	*	.0	*	.1	
1/2<1	0-3	.1	*	*	*	.1	*	.1	.1	.0	*	.3	
	4-10	.1	*	*	*	.1	.1	.1	.2	.0	*	.7	
	11-21	*	*	.0	*	.0	*	*	*	.0	*	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.1	.1	.1	.1	.2	.3	.0	*	1.1	
1<2	0-3	.1	*	*	*	*	*	.1	.1	.0	.2	.6	
	4-10	.2	.1	*	*	*	.1	.1	.3	.0	.0	.8	
	11-21	.1	.1	.0	*	.0	.0	*	*	.0	.0	.2	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.4	.2	*	*	*	.1	.2	.4	.0	.2	1.6	
2<5	0-3	.1	.1	*	*	.1	.1	.2	.3	.0	.6	1.5	
	4-10	.5	.1	.1	*	.1	.2	.3	.8	.0	*	2.0	
	11-21	.3	.1	*	.0	.0	.0	*	.2	.0	.5		
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	*		
	TOT %	.9	.3	.1	*	.1	.3	.5	1.3	.0	.6	4.0	
5<10	0-3	.8	.2	.2	.2	.3	.6	1.0	1.3	.0	1.9	6.3	
	4-10	3.1	1.1	.2	.2	.5	1.1	2.4	5.2	.0	13.8		
	11-21	1.4	.5	*	*	.0	.1	.4	1.3	.0	3.8		
	22+	.1	.1	*	.0	.0	.0	.0	.1	.0	.2		
	TOT %	5.5	1.8	.4	.4	.7	1.7	3.8	7.8	.0	1.9	24.1	
10+	0-3	2.0	.5	.1	.2	.3	.6	1.7	3.3	.0	4.9	13.8	
	4-10	10.3	2.8	.5	.4	.8	2.1	6.9	16.6	.0	40.3		
	11-21	7.1	1.7	.1	*	*	.1	.8	4.4	.0	14.4		
	22+	.4	.1	.0	.0	.0	.0	.1	.0	.0	.5		
	TOT %	19.8	5.1	.7	.6	1.2	2.8	9.4	24.4	.0	4.9	69.0	
TOT OBS		8664											
TOT PCT		26.8	7.5	1.3	1.2	2.1	5.0	14.1	34.3	.0	7.7	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1856-1973

FEBRUARY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.1	.8	2.0	1.5	1.4	.3	.8	2.4	9.6	90.2	1433
06009	.1	.0	.4	2.2	4.3	3.1	1.3	.4	.8	2.1	14.7	85.3	1358
12015	.1	.1	.3	.9	3.3	2.7	1.4	.9	.5	2.0	12.0	88.0	1343
18021	.0	.0	.1	1.1	2.9	2.9	1.3	.7	.8	3.6	13.4	86.6	1508
TOT	8	1	12	73	183	147	78	35	41	149	727	5115	5842
PCT	.1	.0	.2	1.2	3.1	2.5	1.3	.6	.7	2.6	12.4	87.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	1.3	1.0	4.2	24.5	68.8	2157
06009	.2	1.8	1.7	4.3	27.1	64.9	2446
12015	.1	.8	1.5	3.9	21.9	71.9	2178
18021	.0	1.5	2.0	4.3	24.7	67.5	2586
TOT	12	129	146	389	2307	6394	9367
PCT	.1	1.4	1.6	4.2	24.6	68.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND>+	NH <5/8 AND >+	TOTAL OBS
00003	.4	.6	5.2	8.1	86.6	1392
06009	.1	.5	7.5	11.8	80.7	1299
12015	.1	.4	4.9	10.2	84.9	1505
18021	.0	.1	6.2	11.9	81.9	1470
TOT	8	23	335	595	4736	5666
PCT	.1	.4	5.9	10.5	83.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
85/89	.0	.0	.0	.1	.4	.7	.2	.1	87	1.5
80/84	.0	.0	.0	.2	2.9	9.3	8.7	2.0	1314	23.1
75/79	.0	.0	.0	.3	3.0	12.2	17.6	7.1	2287	40.3
70/74	.0	.0	.0	.0	1.1	6.7	13.0	6.7	1573	27.7
65/69	.0	.0	.0	.0	.2	1.0	4.0	2.0	409	7.2
60/64	.0	.0	.0	.0	.0	.0	.1	.1	9	.2
TOTAL	0	0	3	41	437	1705	2477	1018	5681	100.0
PCT	.0	.0	.1	.7	7.7	30.0	43.6	17.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.4	.1	.0	.0	.0	.1	.2	.5	.0	.3
80/84	3.6	1.2	.3	.3	.7	1.7	4.7	8.1	.0	2.2
75/79	9.1	2.7	.6	.4	1.0	1.9	6.5	14.7	.0	3.3
70/74	11.1	2.4	.3	.2	.2	.5	1.9	9.0	.0	1.4
65/69	3.6	.6	.1	.0	.0	.0	.2	2.3	.0	.1
60/64	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	28.2	7.0	1.3	1.0	1.9	4.2	13.6	35.4	.0	7.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	81	76	68	66	63	75.4	2585
06009	85	82	81	76	68	65	62	75.3	3270
12015	92	86	84	78	70	67	63	77.7	2548
18021	92	86	84	78	69	67	61	77.2	3375
TOT	92	85	83	77	69	66	61	76.4	11778

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	2.7	18.2	50.3	28.5	85	1540
06009	.0	.3	3.4	20.6	46.8	28.9	85	1551
12015	.0	1.5	11.9	40.6	37.2	8.8	78	1550
18021	.0	1.0	10.6	37.3	40.6	10.5	79	1647
TOT	0	48	453	1845	2745	1197	82	6288

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1896-1973

FEBRUARY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 66	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WU FOG
14/16	.0	.6	.0	.0	.1	.1	.0	.0	6	.0	.1
11/13	.0	.0	.0	.1	.1	.1	.1	.1	25	.0	.4
9/10	.0	.0	.0	.2	.2	.2	.0	.0	39	.0	.6
7/8	.0	.0	.0	.3	.3	.4	.3	.0	94	.1	1.3
6	.0	.1	.1	.3	.3	.3	.1	.0	79	.1	1.1
5	.0	.1	.2	.5	.6	.5	.2	.0	142	.0	2.1
4	.0	.1	.4	.8	1.0	1.0	.2	.0	239	.2	3.3
3	.0	.1	.8	1.2	1.7	1.2	.3	.0	352	.1	5.1
2	.0	.2	1.2	2.2	2.3	1.8	.2	.0	540	.3	7.6
1	.0	.6	2.0	3.6	4.2	2.8	.1	.0	697	.6	12.7
0	.0	.7	2.7	4.5	6.3	3.1	.0	.0	1176	1.0	16.4
-1	.0	.6	2.6	4.7	7.3	2.5	.0	.0	1194	.6	17.1
-2	.0	.5	1.9	3.9	4.7	1.4	.0	.0	841	.5	12.0
-3	.0	.4	1.4	2.7	2.8	.4	.0	.0	523	.2	7.6
-4	.0	.1	.6	1.5	1.5	.4	.0	.0	278	.1	4.1
-5	.0	.1	.6	.8	1.0	.1	.0	.0	168	.0	2.4
-6	.0	.0	.2	.4	.3	.0	.0	.0	66	.0	1.0
-7/-8	.0	.1	.3	.4	.2	.0	.0	.0	63	.0	.9
-9/-10	.0	.0	.1	.1	.0	.0	.0	.0	23	.0	.3
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	15	.0	.2
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	11	238	1030	1911	2350	1110	105	6	6761	263	6498
PCT	.2	3.5	15.2	28.3	34.8	16.4	1.6	.1	100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	2.2	.1	.0	.0	.0	4.1	.4	.5	.0	.0	.0	.0	.9
1-2	1.2	8.5	3.0	.0	.0	.0	12.7	.2	1.4	.4	.0	.0	.0	1.9
3-4	.1	2.9	3.3	.1	.0	.0	6.4	.0	1.0	.6	.0	.0	.0	1.6
5-6	.0	.5	1.9	.1	.0	.0	2.4	.0	.1	.4	.0	.0	.0	.5
7	.0	.1	.8	.2	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	14.3	9.3	.5	.0	.0	27.3	.6	3.0	1.3	.0	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.4	.2	.0	.0	.0	.0	.6
1-2	.1	.4	.1	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0	.3
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.1	.0	.0	.0	1.1	.4	.4	.0	.0	.0	.0	.9

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY
TABLE 18 (CONT)

AREA 0009 CONAKRY
9.1N 15.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.4	.2	.0	.0	.0	.0	.5	.5	.8	.0	.0	.0	.0	1.3	
1-2	.1	.7	.0	.0	.0	.0	.8	.5	1.7	.0	.0	.0	.0	2.2	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	1.1	.0	.0	.0	.0	1.6	1.0	2.8	.0	.0	.0	.0	3.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	1.7	2.5	.1	.0	.0	.0	4.3	2.9	4.2	.1	.0	.0	.0	7.2	
1-2	.9	6.0	.5	.0	.0	.0	7.4	1.9	15.1	1.8	.0	.0	.0	18.8	
3-4	.1	1.1	.6	.0	.0	.0	1.8	.2	4.5	3.1	.0	.0	.0	7.8	
5-6	.0	.0	.2	.0	.0	.0	.3	.0	.5	1.5	.0	.0	.0	2.0	
7	.0	.0	.0	.0	.0	.0	.1	.0	.1	.5	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	9.7	1.4	.0	.0	.0	13.9	4.9	24.4	7.0	.1	.0	.0	36.4	89.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.2	10.7	.2	.0	.0	.0	33.2	
1-2	5.7	31.9	5.3	.0	.0	.0	42.9	
3-4	.5	9.2	7.0	.1	.0	.0	16.8	
5-6	.0	1.2	3.6	.1	.0	.0	4.9	
7	.0	.3	1.1	.2	.0	.0	1.7	
8-9	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.5	53.2	17.7	.6	.0	.0	100.0	3363

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	19.5	13.0	3.7	1.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1853	3
6-7	.1	2.4	5.6	4.5	1.5	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	666	4
8-9	.1	1.0	2.3	2.2	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	322	5
10-11	.0	2.2	1.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	4
12-13	.0	.0	1.2	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	4
>13	.0	.0	.0	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	8
INDET	10.5	8.4	5.5	1.4	1.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1194	2
TOTAL	662	1466	1270	566	262	70	45	14	13	1	0	0	0	0	0	0	0	0	0	4369	3
PCT	19.2	33.6	29.1	13.0	6.0	1.6	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	*	.0	.0	.0	.0	.0	.0	*	*	.9	3.1	.0	9.5	1.0	85.4	
NE	.3	.0	.0	.0	.0	.0	.0	.3	.4	1.0	3.7	.0	8.5	1.5	84.5	
E	.0	.0	.0	.0	.0	.0	.0	.0	2.8	1.6	6.9	.0	11.0	.0	77.6	
SE	3.7	.0	.0	.0	.0	.0	.0	3.7	.3	2.8	10.4	.0	.9	.3	81.6	
S	.6	.5	.0	.0	.0	.0	.0	1.1	.6	4.0	5.0	.0	6.7	1.1	82.1	
SW	.1	.4	.1	.0	.0	.0	.0	.6	.0	3.3	3.0	.3	8.6	.3	84.0	
W	.1	*	*	.0	.0	.0	.0	.2	.1	1.6	3.7	.2	7.3	.4	86.5	
NW	*	.1	*	.0	.0	.0	.0	.1	*	.9	3.7	.0	7.1	.9	87.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.4	.0	14.0	1.5	77.3	
TOT PCT	.1	.1	*	.0	.0	.0	.0	.2	.1	1.3	3.7	.1	9.2	.9	85.6	
TOT OBS:	7075															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.1	.1	.0	.0	.0	.0	.1	.0	2.8	3.1	.1	7.1	.8	85.9
0609	.3	.2	.0	.0	.0	.0	.0	.4	.2	2.2	4.3	.1	6.2	.6	85.9
12015	.1	.0	.0	.0	.0	.0	.0	.1	.2	.1	3.6	.1	9.7	1.1	85.2
18021	.1	.1	.1	.0	.0	.0	.0	.2	.1	.3	3.9	.1	9.4	1.4	84.8
TOT PCT	.1	.1	*	.0	.0	.0	.0	.2	.1	1.3	3.8	.1	8.1	1.0	85.5
TOT OBS:	7679														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.5	13.3	7.8	.2	.0	.0		23.8	9.2		18.5	15.8	20.8	27.5	31.0	25.1	24.6	20.7
NE	.8	2.8	1.1	.1	.0	.0		4.8	8.2		3.6	3.2	4.6	7.9	6.1	2.1	4.4	3.9
E	.4	.6	.0	.0	.0	.0		1.0	5.0		.6	.0	1.2	1.2	1.6	1.0	.9	.7
SE	.5	.9	.0	.0	.0	.0		1.4	4.9		1.3	1.9	1.0	1.8	1.3	1.4	1.5	1.7
S	1.3	1.8	.1	.0	.0	.0		3.3	4.6		4.7	4.2	2.9	2.7	2.1	1.4	2.6	5.8
SW	2.0	4.4	.3	.0	.0	.0		6.6	5.4		10.4	9.4	7.0	5.3	3.4	2.9	5.7	6.7
W	3.4	11.4	1.4	.0	.0	.0		16.2	6.2		20.0	26.9	19.2	11.1	10.8	15.7	15.6	19.0
NW	3.8	25.9	6.6	.1	.0	.0		36.4	7.7		33.9	30.6	36.2	36.3	38.6	44.3	38.3	32.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5							6.5	.0		7.1	8.1	7.2	6.3	5.1	6.1	6.5	7.0
TOT OBS	2556	7386	2086	51	1	0	12080		7.0		2398	173	2339	1038	2509	181	2399	1043
TOT PCT	21.2	61.1	17.3	.4	.0	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	18
N	8.2	13.5	2.0	.0	.0		23.8	9.2	18.3	22.9	30.6	23.4
NE	2.2	2.2	.3	.0	.0		4.8	8.2	3.5	5.6	5.9	4.3
E	.8	.2	.0	.0	.0		1.0	5.0	.6	1.2	1.6	.9
SE	1.1	.2	.0	.0	.0		1.4	4.9	1.4	1.3	1.3	1.5
S	2.7	.6	.0	.0	.0		3.3	4.6	4.7	2.8	2.0	3.6
SW	4.7	1.9	.0	.0	.0		6.6	5.4	10.3	6.5	3.4	6.6
W	9.9	6.2	.1	.0	.0		16.2	6.2	20.5	16.7	11.1	16.6
NW	16.1	19.2	1.0	.0	.0		36.4	7.7	33.7	36.2	39.0	36.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.5						6.5	.0	7.2	6.9	5.1	6.6
TOT OBS	6329	5419	422	10	0	12080		7.0	2571	3377	2690	3442
TOT PCT	52.4	44.0	3.5	.1	.0	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	7.2	14.1	61.8	16.5	.4	.0	.0	.0	7.0	100.0	2571
0600	6.9	14.1	62.1	16.5	.4	.0	.0	.0	7.0	100.0	3377
1200	5.1	13.8	61.1	19.5	.4	.0	.0	.0	7.3	100.0	2690
1800	6.6	16.3	59.8	16.8	.5	.0	.0	.0	6.9	100.0	3442
TOT	783	1773	7366	2076	51	1	0	.0	7.0	100.0	12080
PCT	6.3	14.7	61.1	17.3	.4	*	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	16.3	3.1	3.2	1.4		1.0
NE	2.5	.5	.7	.2		2.1
E	.4	.2	.1	.1		3.2
SE	.7	.1	.2	.1		2.2
S	1.4	.3	.2	.1		1.8
SW	3.6	.7	.8	.4		2.1
W	10.9	2.2	2.6	1.0		2.1
NW	25.0	5.7	6.6	2.5		2.2
VAR	.0	.0	.0	.0		.0
CALM	4.4	.6	.8	.3		1.7
TOT OBS	3771	767	886	356	5780	2.1
TOT PCT	65.2	13.3	15.3	6.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
*	.0	.0	.2	.5	.4	.3	.1	.1	.5	21.9	
*	.0	*	*	.1	.2	.1	*	*	.1	3.4	
.0	.0	.0	.0	*	.1	*	*	*	*	.7	
.0	.0	.0	.0	.1	*	*	*	*	.0	.9	
.0	.0	.0	*	*	*	*	*	*	.0	1.8	
.0	.0	*	*	.1	.1	.1	*	*	*	5.1	
.0	.0	.1	.1	.4	.3	.2	.2	.1	.3	15.1	
.0	.0	*	.5	1.2	1.0	.4	.2	.4	1.0	35.2	
.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.1	.2	*	*	.1	.1	5.5	
11	0	6	61	144	132	65	30	40	116	5175	5780
.2	.0	.1	1.1	2.5	2.3	1.1	.5	.7	2.0	89.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YU	= OR >0
= OR >6500	1.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7
= OR >5000	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >3500	3.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	4.4	6.3	6.5	6.5	6.5	6.5	6.5	6.5
= OR >1000	6.2	8.7	8.9	9.0	9.0	9.0	9.0	9.0
= OR >600	6.9	9.6	9.9	10.0	10.0	10.0	10.0	10.0
= OR >300	6.9	9.7	10.0	10.1	10.1	10.1	10.1	10.1
= OR >150	6.9	9.7	10.0	10.1	10.1	10.1	10.1	10.1
= OR >0	6.9	9.8	10.2	10.2	10.2	10.2	10.2	10.2
TOTAL	432	608	635	638	638	638	638	638

TOTAL NUMBER OF OBS: 6232

PCT FREQ NM <5/8: 89.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
61.4	9.8	7.4	6.2	4.1	2.4	3.0	2.4	3.1	.1	6465

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1855-1973

MARCH

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9.1N 15.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* .0	.0	.0	* .0	.0	.0	* .0	* .0	* .0	* .0	* .1	
	TOT %	* .0	.0	.0	* .0	.0	.0	* .0	* .0	* .0	* .0	* .1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.1	* *	* .1	.1	.1	.2	.3	.0	.0	* 1.3	
	TOT %	.3	.1	* *	* .1	.1	.1	.2	.3	.0	.0	* 1.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	* *	* *	* *	* .1	.3	.4	.0	.0	* 1.1		
	TOT %	.2	* *	* *	* *	* .1	.3	.4	.0	.0	* 1.1		
2<5	PCP	.0	.0	.0	* .0	.0	.0	.0	.0	.0	.0	* .4	
	NO PCP	.6	.1	.1	.1	.1	.2	.6	1.3	.0	.4	3.6	
	TOT %	.6	.1	.1	.1	.1	.2	.6	1.3	.0	.4	3.7	
5<10	PCP	* *	* .0	* *	* .0	* *	* *	* *	* .0	.0	.0	* .1	
	NO PCP	6.3	1.2	.3	.3	.7	2.3	4.8	10.3	.0	2.4	28.6	
	TOT %	6.3	1.2	.3	.3	.7	2.3	4.8	10.4	.0	2.4	28.7	
10+	PCP	.0	.0	.0	* *	* *	* .0	* *	* .0	.0	.0	* .1	
	NO PCP	16.1	2.7	.4	.7	1.3	3.4	10.8	26.6	.0	2.8	65.0	
	TOT %	16.1	2.7	.4	.7	1.3	3.4	10.8	26.6	.0	2.8	65.0	
TOT OBS		23.6	4.2	.9	1.1	2.3	6.1	16.8	39.2	.0	5.7	100.0	7059
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	* .0	.0	* .7		
	4-10	* .0	.0	.0	.0	* .0	* .0	* .0	* .0	* .0	* .1		
	11-21	.0	.0	.0	.0	.0	.0	.0	* .0	* .0	* .0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	* .0	.0	.0	.0	* .0	* .0	* .0	* .0	* .0	* .1		
1/2<1	0-3	* *	* *	* *	* *	* *	* *	* *	* *	* .0	* .7		
	4-10	.1	* *	.0	* *	* *	* .1	.3	* .0	.0	* .1		
	11-21	.1	* *	.0	.0	.0	* .0	* *	* .0	.0	* .1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.2	.1	* *	* *	.1	.1	.2	.4	.0	* 1.1		
1<2	0-3	.1	* *	.0	.0	* *	.1	.1	.1	.0	.1	.4	
	4-10	.1	* *	* *	* *	* *	.2	.1	.0	.0	.0	.6	
	11-21	* *	* *	.0	.0	.0	* .1	.0	* .1	.0	.0	.1	
	22+	.0	.0	* *	.0	.0	.0	.0	.0	.0	.0	* .1	
	TOT %	.2	* *	* *	* *	* *	.1	.2	.3	.0	.1	1.1	
2<5	0-3	.1	* *	.1	* *	.1	* .2	.2	.2	.0	.6	1.3	
	4-10	.5	.1	* *	* *	.1	.2	.4	1.0	.0	.2	2.3	
	11-21	.2	* *	.0	.0	.0	* *	* .2	.0	.0	.4	* .4	
	22+	.0	.0	.0	* *	* .0	.0	.0	.0	.0	.0	* .0	
	TOT %	.8	.1	.1	.1	.1	.2	.7	1.3	.0	.6	4.1	
5<10	0-3	.8	.3	.1	.1	.3	.8	1.1	1.2	.0	2.5	7.2	
	4-10	3.6	.8	.1	.2	.4	1.3	3.0	7.0	.0	.0	16.4	
	11-21	1.9	.3	* *	* *	.1	.1	.4	1.7	.0	.0	4.5	
	22+	.1	* *	.0	.0	.0	.0	.0	* .0	.0	.0	* .1	
	TOT %	6.4	1.3	.2	.3	.8	2.1	4.5	9.9	.0	2.5	28.2	
10+	0-3	1.4	.4	* *	.6	1.0	2.1	2.2	.0	.0	3.1	11.0	
	4-10	8.7	1.7	.4	.5	.9	2.5	8.3	18.8	.0	.0	41.8	
	11-21	5.5	.7	* *	* *	* .1	1.0	5.0	.0	.0	.0	12.6	
	22+	.1	* *	.0	.0	.0	.0	.0	* .0	.0	.0	* .2	
	TOT %	15.7	2.9	.5	.8	1.5	3.7	11.4	26.1	.0	3.1	65.5	
TOT OBS		23.3	4.4	.9	1.2	2.6	6.2	17.0	38.1	.0	6.3	100.0	9190
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	500 1999	600 3499	700 4999	800 6499	900 7999	1000+ 8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.1	.0	.1	.4	1.1	1.5	.5	.3	.4	1.7	6.1	93.9	1585
06009	.3	.0	.2	1.8	2.7	2.9	1.1	.7	.5	2.1	12.3	87.7	1502
12015	.2	.0	.1	1.1	3.9	2.9	1.0	.5	.9	2.6	13.6	85.2	1676
18021	.1	.0	.0	.7	1.8	1.3	1.2	.4	.9	1.6	8.0	92.0	1631
TOT	11	0	0	4	15	13	6	3	4	12	64	5750	6394
PCT	.2	.0	.1	1.0	2.4	2.2	1.1	.5	.7	2.0	10.1	69.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+ TOTAL OBS
00003	.1	.0	.9	3.6	27.7	66.9 2253
06009	.2	1.4	.9	4.3	30.4	52.8 2578
12015	.3	1.0	1.0	4.4	28.3	67.1 2313
18021	.1	1.4	1.5	4.2	28.4	64.5 2650
TOT	15	112	107	403	2769	6388 9794
PCT	.2	1.1	1.1	4.1	28.3	65.2 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.1	.3	4.0	5.5	90.5	1540
06009	.3	.7	6.3	9.9	83.8	1449
12015	.1	.4	5.7	12.0	82.3	1639
18021	.1	.2	5.2	7.2	87.7	1604
TOT	10	25	329	540	5363	6232
PCT	.2	.4	5.3	8.7	86.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	5	.1
85/89	.0	.0	.0	.0	.4	.9	.2	.1	94	1.6
80/84	.0	.0	.1	.3	2.0	8.6	10.4	2.0	1385	23.4
75/79	.0	.0	.0	.2	2.1	10.0	18.2	8.5	2310	39.1
70/74	.0	.0	.0	.1	.5	4.6	14.2	9.5	1648	27.9
65/69	.0	.0	.0	.0	.0	.7	4.0	3.1	486	7.9
60/64	.0	.0	.0	.0	.0	.0	.0	.1	7	.1
TOTAL	0	2	5	37	298	1472	2790	1311	5915	100.0
PCT	.0	.0	.1	.6	5.0	24.9	47.2	22.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.1	.0	.0	.1	.1	.3	.0	.0	.2
80/84	.3	.6	.2	.4	.8	1.9	5.4	9.5	.0	1.5
75/79	7.5	1.4	.4	.4	.8	3.3	8.0	14.6	.0	2.7
70/74	9.7	1.4	.2	.1	.3	.9	2.9	11.2	.0	1.2
65/69	3.3	.4	.0	.0	.1	.1	.4	3.4	.0	.2
60/64	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	23.9	3.9	.8	.9	2.0	6.2	17.0	39.4	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	82	81	76	68	66	63	75.3	2709
06009	91	82	81	75	67	65	62	74.8	3545
12015	92	87	85	78	70	67	64	77.6	2777
18021	92	86	83	77	69	66	64	77.0	3566
TOT	92	86	83	77	68	66	62	76.2	12597

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	1.7	11.8	52.0	34.1	86	1592
06009	.0	.3	2.3	13.1	49.5	34.7	86	1598
12015	.0	1.3	9.1	40.7	40.7	8.2	79	1620
18021	.0	1.0	6.4	31.7	47.4	13.5	81	1646
TOT	0	49	316	1578	3060	1453	83	6456

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 66	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	9	*	.1
11/13	.0	.0	.0	*	.1	.2	.1	.1	30	*	.4
9/10	.0	*	*	.1	.3	.1	.1	*	40	.1	.5
7/8	.0	.0	.1	.3	.6	.2	.1	.1	97	.1	1.3
6	.0	.0	.1	.4	.5	.2	.2	.0	96	.1	1.3
5	.0	*	.2	.8	.8	.6	.3	*	190	.1	2.6
4	.0	*	.5	.7	1.0	.8	.2	.0	227	.1	3.1
3	*	.3	.7	1.5	1.5	1.0	.3	.0	377	.2	5.2
2	.0	.5	1.4	2.2	2.5	1.9	.3	.0	597	.5	8.1
1	*	.8	2.3	3.5	3.4	2.4	.2	.0	888	.6	12.1
0	.0	1.2	2.7	3.8	5.5	3.2	.1	.0	1147	.6	15.8
-1	*	.9	3.0	3.8	6.0	2.8	*	.0	1151	.7	15.9
-2	*	.4	1.7	3.4	4.6	1.6	.0	.0	804	.3	11.2
-3	.0	.3	1.1	2.7	3.0	.6	*	.0	535	.3	7.4
-4	.0	.2	.8	1.6	1.9	.4	.0	.0	343	.1	4.6
-5	*	.1	.7	1.0	1.0	.2	.0	.0	204	*	2.9
-6	.0	*	.5	.5	.4	.0	.0	.0	95	*	1.3
-7/-8	*	.1	.4	.5	.2	*	.0	.0	88	.0	1.3
-9/-10	.0	*	.2	.2	.1	.0	.0	.0	34	*	.5
-11/-13	.0	*	*	.1	.0	.0	.0	.0	6	*	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	*		1137	2313	133				6960	272	6688
PCT	.1	350	1878	1125	16				100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.7	*	.0	.0	.0	3.1	.3	.4	.0	.0	.0	.0	.7
1-2	.9	7.7	2.2	.0	.0	.0	10.7	.3	1.0	.1	.0	.0	.0	1.3
3-4	.1	2.7	4.4	.0	.0	.0	7.2	.1	.4	.5	.0	.0	.0	.9
5-6	.0	.4	2.1	.1	.0	.0	2.6	.0	.1	.3	.0	.0	.0	.3
7	.0	*	.2	.0	.0	.0	.4	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.3	.0	.0	.1	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	12.9	9.4	.1	.0	.0	24.3	.6	1.8	.9	*	.0	.0	3.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4	.3	.2	.0	.0	.0	.0	.6
1-2	.0	.2	*	.0	.0	.0	.2	.1	.3	*	.0	.0	.0	.4
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	.1	.0	.0	.0	.7	.4	.6	*	.0	.0	.0	1.0

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.7	1.1	*	.0	.0	.0	1.9
1-2	.1	.4	.0	.0	.0	.0	.6	.3	2.1	.2	.0	.0	.0	2.6
3-4	*	.3	.1	.0	.0	.0	.4	*	.3	*	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.1	.1	.0	.0	.0	1.8	1.0	3.6	.3	.0	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.6	2.7	*	.0	.0	.0	4.4	1.5	5.1	.1	.0	.0	.0	6.7	20.3
1-2	1.2	7.6	.7	.0	.0	.0	9.5	1.2	16.7	2.4	.0	.0	.0	20.3	9.6
3-4	*	1.7	.8	.0	.0	.0	2.5	.1	5.4	4.1	*	.0	.0	2.3	.5
5-6	.0	.2	.1	.0	.0	.0	.4	.0	.5	1.8	*	.0	.0	.1	.1
7	.0	*	*	.0	.0	.0	.1	.0	.1	.3	.1	.0	.0	.0	.0
8-9	.0	*	.0	.0	.0	.0	*	.0	*	*	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	12.3	1.7	.0	.0	.0	16.8	2.9	27.7	8.7	.1	.0	.0	39.5	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	17.0	11.8	.2	.0	.0	.0	29.0	
1-2	5.0	34.1	5.2	.0	.0	.0	44.3	
3-4	.5	10.1	9.3	*	.0	.0	19.9	
5-6	.0	1.2	4.1	.1	.0	.0	5.4	
7	.0	.2	.7	.1	.0	.0	.9	
8-9	.0	.1	.3	.1	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	22.5	57.5	19.8	.2	.0	.0	100.0	3826

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.4	17.7	12.8	4.0	.9	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1970	3
6-7	*	2.7	7.3	5.0	2.0	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	868	4
8-9	.1	1.3	3.0	2.2	1.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	410	4
10-11	.0	1.3	.9	1.0	.4	.2	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	4
12-13	.0	.0	1.4	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	4
>13	.0	.0	.0	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
INDET	10.7	7.6	5.6	1.9	.6	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1308	2
TOTAL	745	1497	1515	731	286	86	32	2	4	1	0	0	0	0	0	0	0	0	0	0	4899	3
PCT	15.2	30.6	30.9	14.9	5.8	1.8	.7	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0009 CONAKRY
9.1N 15.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.5	.1	.1	.0	.0	.0	.0	.7	.2	1.0	2.6	.0	10.2	1.0	84.5	
NE	.9	.6	.1	.0	.0	.0	.0	1.6	1.2	1.8	5.2	.0	4.8	.1	85.9	
E	1.0	4.1	.0	.0	.0	.0	.0	5.2	1.0	4.1	2.8	.0	3.9	.0	82.9	
SE	1.2	.5	1.0	.0	.0	.0	.0	2.7	1.0	5.5	5.5	.0	5.0	.0	81.4	
S	.8	.0	.0	.0	.0	.0	.0	1.4	.0	5.2	6.0	.0	6.3	.0	81.0	
SW	.4	.4	.1	.0	.0	.0	.0	1.0	1.0	2.7	4.3	.0	11.1	1.5	78.4	
W	.3	.3	.1	.0	.0	.0	.0	.7	.1	2.3	3.7	.0	7.5	1.4	84.3	
NW	.4	.3	.1	.0	.0	.0	*	.8	.1	1.4	3.4	.0	8.0	1.2	85.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.6	.0	.0	.0	.0	.0	.9	.3	3.7	5.0	.0	9.3	.6	80.1	
TOT PCT	.4	.4	.1	.0	.0	.0	*	.9	.2	1.9	3.6	.0	8.4	1.1	84.2	
TOT OBS:	7124															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.6	.2	.2	.0	.0	.0	.0	1.0	.2	4.7	3.1	.0	8.0	.5	83.0
06009	.7	.5	.0	.0	.0	.0	.0	1.2	.1	2.7	4.2	.0	7.0	.9	84.3
12015	.3	.3	.2	.0	.0	.0	.1	.3	.4	.1	3.1	.0	8.6	1.6	85.5
18021	.2	.4	*	.0	.0	.0	.0	.7	.3	.9	4.4	.0	10.6	1.5	81.6
TOT PCT	.5	.3	.1	.0	.0	.0	*	.9	.2	2.0	3.7	.0	8.6	1.2	83.6
TOT OBS:	7765														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	2.1	13.5	6.6	.1	.0	.0		22.4	8.9	17.5	18.1	18.4	25.1	29.6	25.1	24.5	18.1
NE	.6	3.0	.8	*	.0	.0		4.5	7.7	3.4	3.8	4.2	6.9	5.3	4.2	4.3	3.5
E	.4	.8	.1	*	.0	.0		1.3	6.1	.9	1.7	1.7	2.1	1.8	.6	.8	.8
SE	.4	.9	.1	*	.0	.0		1.4	2.6	1.4	3.0	1.5	1.7	1.4	1.3	1.2	1.1
S	.9	1.6	.1	.0	.0	.0		2.6	4.9	4.0	3.2	1.9	1.9	1.9	2.2	3.9	
SW	1.7	5.1	.4	.0	.0	.0		7.1	5.7	9.7	8.8	7.1	5.5	4.0	2.7	7.1	10.6
W	2.6	14.1	1.6	*	.0	.0		18.3	6.7	22.8	24.9	19.8	15.1	13.5	18.6	17.5	20.4
NW	3.7	26.3	7.1	.1	.0	.0		37.2	7.8	34.1	34.8	38.8	35.8	38.5	44.2	38.1	36.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0	6.1	1.7	6.6	5.9	4.0	2.3	4.3	5.5
TOT OBS	2097	7767	1996	28	0	0	11888		7.2	2384	173	2299	1052	2429	173	2364	1014
TOT PCT	17.6	65.3	16.8	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	8.0	12.8	1.6	*	.0		22.4	8.9	17.6	20.5	29.3	22.6	
NE	2.2	2.0	.2	.0	.0		4.5	7.7	3.4	5.1	5.3	4.0	
E	.9	.4	*	.0	.0		1.3	6.1	1.0	1.8	1.7	.8	
SE	1.0	.4	*	.0	.0		1.4	5.6	1.5	1.6	1.4	1.2	
S	2.0	.6	*	.0	.0		2.6	4.9	4.0	1.9	1.8	2.7	
SW	5.0	2.1	*	.0	.0		7.1	5.7	9.7	6.6	3.9	8.1	
W	10.1	8.1	.1	.0	.0		18.3	6.7	22.9	18.3	13.9	18.4	
NW	15.9	20.3	1.0	.0	.0		37.2	7.8	34.1	37.9	38.9	37.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.2						5.2	.0	5.8	6.4	3.9	4.7	
TOT OBS	5973	5551	363	1	0	11888		7.2	2557	3351	2602	3378	
TOT PCT	50.2	46.7	3.1	*	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1925-1973

APRIL

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.8	12.1	65.5	16.3	.3	.0	.0	.0	7.1	100.0	2557
06009	6.4	12.2	66.2	15.0	.2	.0	.0	.0	6.9	100.0	3351
12015	3.9	12.1	63.3	20.4	.3	.0	.0	.0	7.6	100.0	2602
18021	4.7	13.1	66.0	16.2	.1	.0	.0	.0	7.1	100.0	3378
TOT	622	1475	7757	1996	28	0	0	0	7.2		11888
PCT	5.2	12.4	65.3	16.8	.2	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	13.9	3.5	4.6	1.8		2.5
NE	1.5	.4	1.0	.4		3.4
E	.3	.2	.5	.2		4.7
SE	.4	.3	.3	.3		3.7
S	1.0	.2	.4	.3		3.0
SW	3.0	.5	1.2	.8		3.0
W	9.9	2.8	3.6	2.2		2.9
NW	20.8	6.2	8.0	4.8		3.0
VAR	.0	.0	.0	.0		.0
CALM	2.5	.6	1.1	.6		3.0
TOT OBS	3011	824	1162	645	5642	2.9
TOT PCT	53.4	14.6	20.6	11.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.3	1.0	.8	.3	.2	.2	.4	20.3	
NE	.0	.0	.1	.2	.2	.1	.1	.1	.1	.1	2.5	
E	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.7	
SE	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	1.0	
S	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	1.6	
SW	.0	.0	.2	.2	.2	.1	.1	.1	.1	.2	4.6	
W	.0	.0	.2	.8	.6	.3	.1	.2	.5	15.6		
NW	.1	.1	.1	1.8	1.6	.8	.4	.2	.9	33.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.1	.1	.1	.1	3.9	
TOT OBS	2	12	109	261	216	98	49	46	130	4711	5642	
TOT PCT	.1	.2	1.9	4.6	3.3	1.7	.9	.8	2.3	83.3	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0	
>6500	1.7	2.9	3.3	3.3	3.3	3.3	3.3	3.3	
>5000	2.3	3.7	4.1	4.2	4.2	4.2	4.2	4.2	
>3500	3.2	5.3	5.8	5.8	5.9	5.9	5.9	5.9	
>2000	5.7	8.8	9.6	9.6	9.7	9.7	9.7	9.7	
>1000	9.0	13.4	14.3	14.3	14.4	14.4	14.4	14.4	
>600	10.3	15.2	16.2	16.3	16.3	16.3	16.3	16.3	
>300	10.3	15.3	16.4	16.4	16.5	16.5	16.5	16.5	
>150	10.3	15.3	16.4	16.5	16.5	16.5	16.5	16.5	
>0	10.4	15.4	16.5	16.6	16.6	16.6	16.7	16.7	
TOTAL	631	938	1008	1011	1013	1014	1015	1015	

TOTAL NUMBER OF OBS: 6092

PCT FREQ NH <5/8: 83.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	50.8	10.1	8.3	7.9	5.8	3.6	4.4	3.7	5.2	.1	6314

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0009 CUNAKRY
9.1N 15.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	NO PCP	*	.0	*	.0	.0	*	.0	*	.0	*	*	.1
	TOT %	*	.0	*	.0	.0	*	.0	*	.0	*	*	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.1	*	*	.1	.1	.3	.7	.0	*	*	1.7
	TOT %	.4	.1	*	*	.1	.1	.3	.7	.0	*	*	1.7
1<2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
	NO PCP	.2	*	.0	.0	*	.1	.2	.4	.0	.1	1.1	
	TOT %	.3	*	.0	.0	*	.1	.2	.4	.0	.1	1.1	
2<5	PCP	.0	*	.0	.0	.0	*	*	.0	.0	.0	*	*
	NO PCP	.6	.2	*	*	.1	.3	1.0	1.3	.0	.3	3.8	
	TOT %	.6	.2	*	*	.1	.3	1.0	1.3	.0	.3	3.8	
5<10	PCP	.1	*	.1	*	*	*	*	.2	.0	.0	.5	
	NO PCP	6.5	1.4	.6	.4	.8	2.1	6.2	11.2	.0	1.3	30.4	
	TOT %	6.6	1.4	.6	.5	.8	2.1	6.2	11.4	.0	1.3	30.9	
10+	PCP	*	.0	*	*	.0	*	.1	.2	.0	*	.3	
	NO PCP	14.8	2.0	.6	.9	1.2	2.9	11.4	25.6	.0	2.8	62.0	
	TOT %	14.9	2.0	.7	.9	1.2	2.9	11.5	25.6	.0	2.8	62.4	
TOT OBS		22.8	3.8	1.4	1.4	2.2	5.5	19.1	39.4	.0	4.5	100.0	7117
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	*	.0	.1	.1	
	4-10	*	.0	*	.0	.0	.0	.0	*	*	*	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	.0	.0	*	*	*	.0	.1	.1	
1/2<1	0-3	.1	*	.0	.0	.0	*	.0	.1	.0	*	.1	
	4-10	.2	.1	*	*	.1	.1	.2	.4	.0	*	1.0	
	11-21	.1	*	.0	.0	.0	*	*	*	.0	*	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	*	*	.1	.1	.2	.5	.0	*	1.3	
1<2	0-3	*	*	*	.0	*	*	.1	.1	.0	.1	.3	
	4-10	.2	*	.0	.0	*	.1	.1	.2	.0	.6	.1	
	11-21	*	*	.0	.0	.0	.0	*	.1	.0	.1	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	*	*	.0	*	.1	.2	.4	.0	.1	1.0	
2<5	0-3	.1	*	.0	*	*	*	.3	.2	.0	.3	1.0	
	4-10	.4	.1	*	*	.1	.3	.5	1.0	.0	2.4	.4	
	11-21	.1	*	*	*	*	*	.1	.2	.0	.4	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.2	*	*	.1	.3	.9	1.3	.0	.3	3.8	
5<10	0-3	.6	.1	.1	.1	.3	.5	.8	1.0	.0	1.5	5.0	
	4-10	3.8	.9	.4	.3	.5	1.3	4.6	7.7	.0	19.6	.6	
	11-21	1.6	.3	*	*	*	.2	.4	1.9	.0	4.4	.4	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	TOT %	6.0	1.3	.6	.4	.8	2.0	5.8	10.7	.0	1.5	29.0	
10+	0-3	1.2	.3	.2	.3	.4	.8	1.6	2.3	.0	3.3	10.3	
	4-10	8.7	1.5	.4	.5	.8	2.5	9.5	17.9	.0	41.8	.8	
	11-21	5.1	.5	.1	*	.1	.2	1.1	5.2	.0	12.3	.2	
	22+	.1	*	.0	.0	.0	.0	*	.1	.0	*	*	
	TOT %	15.0	2.3	.6	.8	1.3	3.5	12.3	25.5	.0	3.3	64.6	
TOT OBS		22.2	3.9	1.3	1.3	2.2	6.1	19.3	38.4	.0	5.3	100.0	9154
TOT PCT													

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0009 CONAKRY
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.0	.1	1.2	3.3	2.6	1.3	.5	.5	1.5	11.3	88.7	1555
06009	.1	.1	.4	2.5	6.3	3.6	2.2	1.2	.8	3.4	20.6	79.4	1406
12015	.1	.1	.2	2.3	5.0	4.4	1.9	1.2	1.2	2.3	18.8	81.3	1664
18021	.1	.0	.1	1.5	3.8	3.9	1.4	.6	.4	2.9	14.7	85.3	1572
TOT	8	3	12	116	288	230	105	54	46	158	1020	2237	6257
PCT	.1	*	.2	1.9	4.6	3.7	1.7	.9	.7	2.5	16.3	83.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	1.1	.8	4.0	29.9	64.2	2268
06009	.2	1.7	1.0	3.7	32.2	61.3	2581
12015	*	1.2	1.1	3.8	27.2	66.7	2315
18021	.2	1.8	1.3	4.3	29.4	63.0	2636
TOT	14	144	104	386	2911	6241	9800
PCT	.1	1.5	1.1	3.9	29.7	63.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	.5	5.5	9.3	85.1	1501
06009	.1	.6	7.1	17.0	75.9	1415
12015	.1	.4	6.6	15.2	78.2	1633
18021	.1	.4	6.9	12.1	81.0	1543
TOT	9	29	398	815	4879	6092
PCT	.1	.5	6.5	13.4	80.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.1	*	.0	6	.1
85/89	.0	.0	*	.1	.6	1.9	.8	.1	199	3.4
80/84	.0	.0	*	.2	2.5	12.7	14.3	3.2	1910	32.9
75/79	.0	.0	.0	.1	1.2	10.7	17.4	6.0	2061	35.4
70/74	.0	.0	.0	.0	.3	3.6	12.6	6.0	1314	22.6
65/69	.0	.0	.0	.0	.0	.7	3.0	1.9	324	5.6
TOTAL	0	0	2	24	272	1719	2796	1001	5814	100.0
PCT	.0	.0	*	.4	4.7	29.6	48.1	17.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	.0	*	.0	*	*	.0	.1
85	.5	.1	*	.1	.1	.1	.8	1.4	.0	.3
80	5.0	.9	.5	.5	1.0	3.0	8.4	11.6	.0	2.0
75	7.7	1.3	.5	.6	.8	1.9	6.7	14.4	.0	1.6
70	7.7	.9	.3	.1	.2	.5	2.6	9.7	.0	.7
65	2.5	.3	*	.0	*	.1	.3	2.3	.0	.1
TOTAL	23.3	3.4	1.3	1.3	2.1	5.7	18.9	39.4	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	84	82	77	69	66	63	76.6	2722
06009	89	84	82	77	69	66	63	76.3	3489
12015	93	88	86	79	71	68	65	78.9	2711
18021	92	87	84	79	71	68	64	78.2	3476
TOT	93	86	84	78	69	67	63	77.4	12398

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	1.8	16.5	56.1	25.5	85	1575
06009	.0	.2	2.0	16.3	54.3	27.3	85	1563
12015	.0	.7	9.3	47.4	35.8	6.8	78	1601
18021	.0	.9	5.2	37.4	45.6	10.9	81	1603
TOT	0	30	291	1873	3036	1112	82	6342

APRIL

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1955-1973

AREA 0009 CONAKRY
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	FWU
17/19	.0	.0	.0	.0	.0	*	.0	.0	2	.0	*
14/15	.0	.0	.0	.0	*	*	.0	.0	4	*	*
11/13	.0	.0	*	.1	*	*	*	*	25	*	.3
9/10	.0	*	.1	.2	.1	.1	*	.0	40	*	.5
7/8	.0	.1	.2	.4	.3	.1	.1	.0	85	.1	1.1
6	.0	.1	.3	.4	.2	.1	*	.0	80	.1	1.1
5	*	.3	.5	.6	.6	.2	*	.0	161	.1	2.2
4	.0	.3	.7	.7	.6	.3	*	.0	183	.1	2.5
3	.1	.4	1.0	1.1	1.2	.4	*	.0	289	.2	3.9
2	.2	1.1	1.3	1.6	2.1	.6	*	.0	500	.4	6.7
1	.5	1.8	2.4	2.9	3.1	.5	*	.0	784	.7	10.6
0	.5	2.6	3.3	5.2	5.4	.6	*	.0	1231	.8	16.9
-1	.5	2.0	2.7	5.8	5.6	.3	*	.0	1186	.5	16.5
-2	.4	1.4	2.5	4.8	3.7	.1	.0	.0	896	.4	12.4
-3	.1	1.3	2.3	3.8	1.6	.1	.0	.0	642	.2	9.0
-4	.1	.6	1.6	2.0	.8	*	.0	.0	355	.1	4.9
-5	.1	.5	1.2	1.3	.6	.0	.0	.0	251	.1	3.5
-6	*	.3	.7	.4	.2	.0	.0	.0	114	*	1.6
-7/-8	*	.3	.7	.4	.1	.0	.0	.0	116	.1	1.6
-9/-10	.0	.1	.2	.1	.0	.0	.0	.0	25	*	.3
-11/-13	*	*	.1	.0	.0	.0	.0	.0	12	.0	.2
-14/-16	.0	*	*	.0	.0	.0	.0	.0	3	.0	*
TOTAL	184	925	1519	2245	1832	254	24	1	6984	275	6709
PCT	2.6	13.2	21.7	32.1	26.2	3.6	.3	*	100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.0	.1	.0	.0	.0	3.0	.2	.4	*	.0	.0	.0	.7
1-2	.7	6.0	1.8	.0	.0	.0	8.6	.1	.8	.2	.0	.0	.0	1.1
3-4	.1	3.9	3.8	.1	.0	.0	7.9	*	.3	.2	.0	.0	.0	.6
5-6	.0	.6	1.7	.1	.0	.0	2.4	.0	*	.2	*	.0	.0	.2
7	.0	.0	.7	.0	.0	.0	.7	.0	*	.1	.0	.0	.0	.1
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	12.7	8.2	.2	.0	.0	22.7	.4	1.6	.7	*	.0	.0	2.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.2	.3	*	.0	.0	.0	.5
1-2	*	.2	.0	.0	.0	.0	.2	.1	.3	.1	.0	.0	.0	.4
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.1	*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.1	.0	.0	.0	.9	.2	.8	.1	.0	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

APRIL

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9.1N 15.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.7	.8	.0	.0	.0	.0	1.5
1-2	.1	.8	.1	.0	.0	.0	.9	.3	2.3	.1	.0	.0	.0	2.7
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.4	.1	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.1	.0	.0	.0	1.8	1.0	3.6	.3	.0	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.4	3.3	.2	.0	.0	.0	4.9	1.9	4.4	.2	.0	.0	.0	6.6	
1-2	.8	9.7	.6	.0	.0	.0	11.1	1.3	17.4	2.5	.0	.0	.0	21.2	
3-4	.1	2.4	.8	.0	.0	.0	3.2	.0	5.5	3.9	.0	.0	.0	9.5	
5-6	.0	.3	.4	.0	.0	.0	.7	.0	.0	1.5	.0	.0	.0	2.2	
7	.0	.1	.1	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	15.7	2.1	.0	.0	.0	20.1	3.3	28.1	8.5	.1	.0	.0	39.9	94.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	14.1	12.0	.5	.0	.0	.0	26.6	
1-2	3.9	36.7	5.1	.0	.0	.0	45.0	
3-4	.2	17.4	8.6	.1	.0	.0	21.3	
5-6	.0	1.5	3.6	.1	.0	.0	5.4	
7	.0	.2	1.1	.0	.0	.0	1.3	
8-9	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.2	62.4	19.1	.3	.0	.0	100.0	3612

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	16.5	14.5	4.3	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1944	3
6-7	.0	2.7	8.2	6.2	2.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	966	4
8-9	.0	1.1	3.0	2.6	1.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	426	5
10-11	.0	1.0	1.4	.7	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	4
12-13	.0	.0	1.3	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	5
>13	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
INDET	7.7	6.6	5.8	2.1	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1133	2
TOTAL	349	1347	1651	816	312	101	30	9	5	0	0	0	0	0	0	0	0	0	0	4820	3
PCT	11.4	27.9	34.3	16.9	6.5	2.1	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

MAY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WJ PCPN	FUG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	1.6	.5	.0	.0	.0	.0	.0	2.1	1.0	2.2	1.7	.0	5.1	.4	87.7
NE	5.5	1.9	.3	.0	.0	.0	.0	7.6	1.2	8.1	1.6	.0	3.0	.1	80.7
E	7.2	1.3	2.1	.0	.0	.0	.0	10.0	4.8	0.8	.9	.0	1.5	.0	77.4
SE	9.1	4.0	1.2	.0	.0	.0	.0	14.3	5.4	4.7	.1	.0	1.3	.4	75.6
S	6.1	2.8	1.2	.0	.0	.0	.0	9.7	4.6	6.0	1.2	.0	2.8	.5	76.7
SW	3.0	2.3	.4	.0	.0	.0	.0	5.5	2.2	7.3	2.8	.0	3.0	.8	76.7
W	1.2	1.2	.2	.0	.0	.0	.0	2.5	1.5	4.7	1.6	.0	4.0	.4	85.4
NW	.9	.4	.3	.0	.0	.0	.0	1.0	.6	3.8	2.1	.0	4.4	.7	87.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.5	.5	.0	.0	.0	.0	1.9	1.4	5.7	1.1	.0	3.0	.3	87.2
TOT PCT	2.2	1.1	.3	.0	.0	.0	.0	3.0	1.5	4.4	1.8	.0	4.0	.5	84.8
TOT OBS:	6907														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WJ PCPN	FUG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	1.3	.5	.2	.0	.0	.0	.0	1.9	1.3	9.7	1.5	.0	3.1	.5	82.5
06009	4.1	1.4	.5	.0	.0	.0	.0	6.0	1.6	7.9	2.5	.0	2.8	.6	79.7
12015	1.9	1.1	.6	.0	.0	.0	.0	3.5	2.2	.4	1.5	.0	4.3	.4	88.0
18021	1.8	1.4	.2	.0	.0	.0	.0	3.4	1.3	1.4	2.2	.0	4.8	.5	86.9
TOT PCT	2.3	1.1	.4	.0	.0	.0	.0	3.7	1.6	4.8	1.9	.0	3.8	.5	84.3
TOT OBS:	7704														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.5	13.8	4.2	.1	*	.0		20.6	8.0		16.5	20.5	16.9	21.4	26.1	32.5	23.2	16.6
NE	1.1	4.1	.9	*	*	.0		6.1	7.0		4.1	7.2	4.6	8.3	8.8	5.4	6.6	4.7
E	.7	2.1	.3	*	*	.0		3.2	6.9		2.6	2.6	3.8	5.8	3.6	2.3	2.3	1.7
SE	1.0	2.7	.6	.1	*	.0		4.3	7.0		4.3	2.3	3.7	5.9	5.2	1.6	3.9	3.8
S	1.5	3.6	.4	*	*	.0		5.5	5.8		6.3	5.1	5.6	5.2	4.3	3.4	5.4	7.1
SW	1.8	6.4	.6	*	*	.0		8.8	6.1		10.2	11.5	9.7	7.9	6.2	8.9	8.1	12.6
W	2.6	11.1	1.3	.0	.0	.0		15.0	6.4		17.9	19.1	16.9	12.6	11.7	10.1	13.8	17.4
NW	3.4	21.8	4.4	.1	.0	.0		29.7	7.4		29.8	26.2	30.8	27.3	28.6	34.0	31.3	27.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7							6.7	.0		8.3	5.6	7.9	5.7	5.5	1.9	5.4	8.3
TOT OBS	2484	7710	1492	38	4	0	11728		6.6		2338	143	2281	1024	2446	161	2324	1011
TOT PCT	21.2	65.7	12.7	.3	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	12	18
N	8.9	10.9	.8	*	.0		20.6	8.0	16.8	18.3	26.5	21.2	
NE	3.5	2.3	.3	*	.0		6.1	7.0	4.2	5.8	8.6	6.0	
E	1.9	1.1	.1	*	.0		3.2	6.9	2.6	4.4	3.5	2.1	
SE	2.5	1.6	.2	*	.0		4.3	7.0	4.2	4.4	5.0	3.9	
S	3.7	1.7	*	*	.0		5.5	5.8	6.2	5.5	4.3	5.9	
SW	5.5	3.3	*	.0	.0		8.8	6.1	10.3	9.1	6.4	9.4	
W	9.1	5.8	.1	.0	.0		15.0	6.4	18.0	15.6	11.6	14.9	
NW	13.8	15.4	.4	*	.0		29.7	7.4	29.6	29.7	29.0	30.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.7			.0	.0		6.7	.0	8.1	7.2	5.3	6.3	
TOT OBS	6525	4960	228	15	0	11728		6.6	2481	3305	2607	3335	
TOT PCT	55.6	42.3	1.9	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

MAY

TABLE 4

AREA 0009 CONAKRY
9.1N 15.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	8.1	14.8	64.6	12.3	.3	.0	.0	6.4	100.0	2491
0600	7.2	14.3	65.2	12.7	.5	.1	.0	6.6	100.0	3305
1200	5.3	13.0	66.6	14.8	.3	*	.0	7.0	100.0	2607
1800	6.3	15.0	66.4	11.5	.1	*	.0	6.5	100.0	3335
TOT	780	1698	7710	1492	38	4	0	6.6		11728
PCT	6.7	14.3	65.7	12.7	.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	8.4	4.8	7.2	3.3		3.9
NE	1.5	.8	1.8	1.5		4.8
E	.4	.3	.9	.7		5.5
SE	.3	.6	1.2	1.0		5.7
S	.9	.3	1.6	1.3		5.1
SW	1.9	1.6	2.6	1.7		4.7
W	5.3	3.0	4.4	2.2		4.0
NW	11.2	6.3	10.1	4.6		3.9
VAR	.0	.0	.0	.0		.0
CALM	2.0	1.1	1.8	.6		3.8
TOT OBS	1715	1042	1699	915	5371	4.2
TOT PCT	31.9	19.4	31.6	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.2	.8	2.3	1.4	.6	.3	.1	.8	17.2	
NE	*	*	.1	.3	.6	.4	.2	.1	.1	.1	3.6	
E	*	.0	*	.2	.3	.3	.1	.0	*	.1	1.3	
SE	.0	.0	.1	.3	.4	.4	.1	*	*	.1	1.8	
S	.0	.0	.1	.4	.8	.6	.1	*	*	.1	2.5	
SW	*	.0	.1	.3	.7	.8	.2	.1	*	.2	5.4	
W	*	.0	.1	.5	1.0	.8	.4	.1	.1	.4	11.5	
NW	*	.3	.9	2.6	1.8	.8	.3	.4	1.1	24.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.3	.4	.4	.1	*	.1	.1	4.2	
TOT OBS	11	3	49	207	479	370	147	53	53	157	3842	5371
TOT PCT	.2	.1	.9	3.9	8.9	6.9	2.7	1.0	1.0	2.9	71.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.9	3.8	3.9	4.0	4.0	4.0	4.0	4.0
>5000	3.7	4.8	4.9	5.0	5.0	5.0	5.0	5.0
>3500	6.0	7.6	7.7	7.7	7.7	7.7	7.7	7.7
>2000	11.5	14.3	14.5	14.6	14.6	14.6	14.6	14.6
>1000	18.6	22.9	23.3	23.4	23.4	23.4	23.4	23.4
>600	21.2	26.4	27.2	27.3	27.4	27.4	27.4	27.4
>300	21.7	27.2	28.1	28.2	28.3	28.3	28.3	28.3
>150	21.7	27.3	28.2	28.3	28.4	28.4	28.4	28.4
>0	21.8	27.4	28.3	28.4	28.5	28.5	28.6	28.6
TOTAL	1283	1615	1670	1676	1681	1681	1683	1683

TOTAL NUMBER OF OBS: 5893

PCT FREQ NH <5/8: 71.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.7	11.7	12.9	12.5	8.7	6.4	7.2	6.1	9.7	.1	6221

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

MAY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	.0	*	*	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	PCP	*	*	.0	*	.0	.0	*	.0	.0	.0	.1	
	NO PCP	.1	*	.0	*	*	.1	.2	.3	.0	.0	.7	
	TOT %	.2	.1	.0	*	*	.1	.2	.3	.0	.0	.8	
1<2	PCP	.1	*	.0	*	.0	*	.0	*	.0	.0	.1	
	NO PCP	.1	.1	*	*	.1	*	.2	.3	.0	.0	.7	
	TOT %	.1	.1	*	.1	.1	*	.2	.3	.0	*	.8	
2<5	PCP	.1	.1	*	.1	.1	*	*	.1	.0	.0	.4	
	NO PCP	.3	.1	.1	*	*	.2	.5	.0	.0	.1	1.5	
	TOT %	.3	.1	.1	.1	.1	.2	.3	.5	.0	.1	1.9	
5<10	PCP	.2	.1	.1	.2	.3	.2	.1	.2	.0	.1	1.6	
	NO PCP	5.4	1.0	.7	.8	1.0	1.8	4.2	8.0	.0	1.0	24.0	
	TOT %	5.6	1.2	.9	1.0	1.3	2.0	4.4	8.2	.0	1.0	25.6	
10+	PCP	.2	.2	.1	.2	.1	.2	.2	.2	.0	*	1.4	
	NO PCP	16.4	3.9	1.6	2.2	3.1	5.7	10.2	22.1	.0	4.1	69.4	
	TOT %	16.6	4.1	1.7	2.4	3.3	5.9	10.4	22.3	.0	4.1	70.8	
TOT OBS		6888											
TOT PCT		22.8	5.8	2.7	3.6	4.8	8.3	15.4	31.6	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	*	*	.0	*	*	.0	*	.0		.1	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0		*	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	.0	*	*	*	*	.0	*	.1	
1/2<1	0-3	*	*	*	.0	.0	*	*	*	.0	.0	.1	
	4-10	.1	*	*	*	*	.1	.1	.2	.0		.3	
	11-21	*	*	.0	.0	.0	.0	*	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	.1	*	*	*	.1	.1	.2	.0	.0	.7	
1<2	0-3	*	*	*	*	*	*	*	.1	.0	.1	.3	
	4-10	.1	.1	*	*	*	*	.1	.1	.0		.4	
	11-21	*	*	.0	*	*	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	.1	.1	*	.1	.3	.0	.1	.8	
2<5	0-3	.1	*	*	.1	*	*	*	.1	.0	.3	.7	
	4-10	.2	.1	.1	.1	.1	.3	.3	.4	.0		1.6	
	11-21	.1	.1	*	*	*	.1	*	.1	.0		.4	
	22+	.0	.0	*	*	.0	.0	.0	*	.0		*	
	TOT %	.4	.2	.2	.2	.1	.4	.4	.6	.0	.3	2.7	
5<10	0-3	.6	.3	.2	.1	.4	.4	.7	.9	.0	1.2	4.8	
	4-10	3.2	.7	.6	.8	.8	1.4	2.9	5.6	.0		15.9	
	11-21	1.1	.2	.1	.1	.1	.2	.4	1.4	.0		3.6	
	22+	*	*	.0	*	*	*	.0	*	.0		.1	
	TOT %	5.0	1.2	.9	1.0	1.3	2.0	4.0	7.8	.0	1.2	24.4	
10+	0-3	1.7	.7	.4	.5	.8	1.2	1.7	2.4	.0	4.7	14.2	
	4-10	10.7	2.9	1.2	1.7	2.6	4.6	7.9	16.4	.0		48.0	
	11-21	3.0	.6	.2	.4	.2	.4	.9	3.2	.0		8.9	
	22+	*	.0	*	*	*	.0	.0	*	.0		.1	
	TOT %	15.4	4.2	1.9	2.6	3.7	6.2	10.5	22.0	.0	4.7	71.2	
TOT OBS		8753											
TOT PCT		21.1	5.7	3.0	3.9	5.2	8.7	15.2	30.9	.0	6.3	100.0	

MAY

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973AREA 0009 CONAKRY
9.1N 15.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.0	.5	3.2	5.8	4.5	2.0	.3	.5	2.5	19.5	80.5	1458
06009	.2	.1	1.3	5.4	10.8	8.3	3.3	1.5	1.2	3.0	35.1	64.9	1434
12015	.2	.2	.8	3.8	10.0	7.9	3.1	1.2	1.2	3.2	31.4	68.6	1639
18021	.1	.1	1.0	3.2	7.8	5.9	2.5	.9	.8	3.0	25.2	74.8	1549
TOT PCT	12 .2	5 .1	54 .9	235 3.9	524 8.0	405 6.7	164 2.7	60 1.0	56 .9	178 2.9	1693 27.8	4387 72.2	6080 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	*	.5	.6	2.3	24.1	72.4	2193
06009	.1	1.2	.8	3.0	29.4	65.5	2532
12015	.2	.7	.8	3.0	21.1	74.2	2279
18021	.2	.9	.9	2.7	24.4	71.0	2553
TOT PCT	14 .1	81 .8	75 .8	243 2.8	2374 24.8	6750 70.6	9557 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	.9	5.4	15.8	78.8	1403
06009	.1	1.6	8.8	27.9	63.3	1397
12015	.2	1.4	7.2	26.3	66.5	1594
18021	.1	1.3	6.0	21.2	72.8	1499
TOT PCT	11 .2	77 1.3	403 6.8	1349 22.9	4141 70.3	5893 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.2	.1	*	.0	16	.3
85/89	.0	.0	.0	*	.7	3.2	1.1	.1	294	5.1
80/84	.0	.0	*	.1	2.1	20.6	25.8	4.0	3017	52.6
75/79	.0	.0	.0	.0	.3	7.2	19.5	6.5	1921	33.5
70/74	.0	.0	.0	.0	.0	1.0	4.5	2.8	481	8.4
65/69	.0	.0	.0	.0	.0	*	.1	.1	8	.1
TOTAL	0	0	1	7	189	1839	2927	774	5737	100.0
PCT	.0	.0	*	.1	3.3	32.1	51.0	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	*	.0	*	.0	.0	*	.1	.0	*
85/89	1.1	.2	.1	.4	.3	.4	.8	1.4	.0	.5
80/84	9.9	3.3	1.4	2.1	3.2	5.5	8.7	14.8	.0	3.6
75/79	8.9	1.7	1.0	1.0	1.3	2.1	4.8	11.7	.0	1.1
70/74	3.4	.4	.2	.1	.2	.2	.8	3.0	.0	.2
65/69	*	*	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	23.5	5.6	2.8	3.6	4.9	8.2	15.1	31.0	.0	5.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	84	83	80	73	71	66	79.0	2692
06009	89	84	83	79	73	70	66	78.5	3530
12015	93	89	86	81	75	72	67	81.0	2729
18021	93	88	85	81	74	72	67	80.3	3495
TOT	93	87	85	80	73	71	66	79.7	12446

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.1	20.2	60.8	17.9	84	1552
06009	.0	.1	.8	16.7	62.3	20.1	85	1586
12015	.0	.3	6.8	48.3	38.0	6.7	79	1620
18021	.0	.2	4.5	41.3	44.4	9.5	80	1629
TOT	0	10	214	2033	3270	860	82	6387

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	WG FOG
20/22	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	*	*	.0	.0	3	.0	*
14/16	.0	.0	.0	*	*	.0	*	.0	4	.0	.1
11/13	.0	.0	.0	.0	.1	*	*	.0	11	.0	.2
9/10	.0	.0	*	.1	.1	.1	*	.0	22	*	.3
7/8	.0	.0	*	.2	.4	.2	.1	*	56	*	.9
6	.0	.0	.1	.3	.2	.2	.1	*	59	*	.8
5	.0	*	.1	.3	.3	.3	.1	.0	77	*	1.1
4	.0	*	.1	.6	.7	.5	.2	.0	144	*	2.0
3	*	*	.4	.7	1.2	.5	.1	.0	195	.1	2.7
2	.0	.1	.6	1.4	2.1	1.1	*	.0	366	.2	5.1
1	.0	.2	1.2	2.2	3.8	1.1	.0	.0	589	.3	8.3
0	*	.4	2.1	3.9	7.1	.9	.0	.0	985	.3	14.0
-1	*	.4	2.3	5.9	9.2	.5	.0	.0	1261	.3	18.0
-2	.0	.2	2.1	6.0	8.0	.1	.0	.0	1142	.3	16.3
-3	.0	.3	1.8	6.0	4.6	.1	.0	.0	877	.2	12.6
-4	.0	.1	1.0	3.4	1.8	*	.0	.0	437	.1	6.2
-5	.0	.1	.9	2.5	1.0	.0	.0	.0	305	*	4.4
-6	.0	.1	.7	.9	.3	.0	.0	.0	142	*	2.0
-7/-8	*	.1	.7	.9	.3	.0	.0	.0	139	.1	2.0
-9/-10	.0	.1	.3	.2	*	.0	.0	.0	43	*	.6
-11/-13	.0	.1	.1	*	.0	.0	.0	.0	15	.0	.2
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	.6	152	1003	2442	2842	396	40	3	6884	143	6741
PCT	.1	2.2	14.6	35.5	41.3	5.8	.6	*	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.5	.1	.0	.0	.0	3.8	.7	.8	*	.0	.0	.0	1.6
1-2	.8	9.3	1.2	.0	.0	.0	11.3	.2	2.0	.3	.0	.0	.0	2.5
3-4	.1	3.9	2.3	*	.0	.0	6.3	*	.7	.3	*	.0	.0	1.1
5-6	.0	.4	1.0	.1	.0	.0	1.4	.0	*	.2	*	.0	.0	.2
7	.0	*	.2	*	*	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	16.0	4.8	.2	*	.0	23.2	1.0	3.6	.8	*	.0	.0	5.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6	.2	.3	*	.0	.0	.0	.6
1-2	.1	.8	.1	.0	.0	.0	1.0	.1	1.4	.3	.0	.0	.0	1.8
3-4	.0	.3	.1	.0	.0	.0	.4	*	.3	.2	.0	.0	.0	.6
5-6	.0	.1	.1	*	.0	.0	.3	.0	*	.1	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	.3	*	.0	.0	2.2	.3	2.1	.6	*	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	.7	1.0	.0	.0	.0	.0	2.3
1-2	.5	1.9	.3	.0	.0	.0	2.7	.4	4.1	.2	.0	.0	.0	4.7
3-4	.1	.4	.1	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.2	.4	.0	.0	.0	4.5	1.1	6.4	.5	.0	.0	.0	8.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.7	2.9	.0	.0	.0	.0	4.6	1.8	3.9	.1	.0	.0	.0	5.7	
1-2	.8	6.6	.5	.0	.0	.0	7.9	1.2	13.8	1.7	.0	.0	.0	16.7	
3-4	.1	1.4	.5	.0	.0	.0	1.9	.1	5.5	2.1	.0	.0	.0	7.8	
5-6	.0	.0	.1	.0	.0	.0	.2	.0	.5	1.0	.0	.0	.0	1.6	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	10.9	1.2	.0	.0	.0	14.7	3.1	23.8	5.1	.1	.0	.0	32.1	93.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.2	12.8	.3	.0	.0	.0	30.3	
1-2	4.8	38.2	4.1	.0	.0	.0	47.1	
3-4	.5	17.2	5.4	.1	.0	.0	18.1	
5-6	.0	1.1	2.4	.1	.0	.0	3.6	
7	.0	.1	.5	.1	.0	.0	.7	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	22.5	64.4	12.7	.3	.0	.0	100.0	3571

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	16.4	13.2	4.4	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1869	3
6-7	.1	2.2	8.3	5.9	2.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	912	4
8-9	.0	.9	3.6	2.8	1.0	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	409	4
10-11	.0	1.2	.9	1.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4
12-13	.0	.0	1.5	.7	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
>13	.0	.0	.0	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
INDET	8.3	7.0	5.1	2.7	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1151	2
TOTAL	602	1300	1525	859	287	73	29	10	6	6	1	0	0	0	0	0	0	0	0	4698	3
PCT	12.8	27.7	32.5	18.3	6.1	1.6	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.4	1.0	1.0	.0	.0	.0	.0	6.0	1.9	5.2	1.5	.0	.7	.0	85.6
NE	8.8	5.0	1.0	.0	.0	.0	.0	10.0	3.4	9.2	.3	.0	.7	.3	71.4
E	12.0	5.9	2.1	.0	.0	.0	.0	19.5	8.0	9.8	.0	.0	.0	.0	65.6
SE	8.4	5.0	1.0	.0	.0	.0	.0	15.3	5.4	7.1	.0	.0	.0	.0	73.0
S	6.5	6.7	1.1	.0	.0	.0	.0	14.3	7.0	7.0	.2	.0	.4	.0	71.5
SW	7.2	6.3	1.0	.0	.0	.0	.1	15.1	5.9	7.6	.5	.0	.3	.0	72.3
W	4.2	3.5	.8	.0	.0	.0	.3	8.9	2.9	7.0	.5	.0	.4	.1	81.0
NW	3.4	2.4	.5	.0	.0	.0	.0	6.3	2.4	5.8	.3	.0	.7	.1	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3	2.0	.0	.0	.0	.0	.0	5.3	2.0	6.8	.5	.0	1.3	.0	84.4
TOT PCT	5.6	4.3	1.0	.0	.0	.0	.1	11.0	4.2	6.9	.5	.0	.5	*	77.8
TOT OBS:	6430														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	5.2	3.2	.8	.0	.0	.0	.2	9.2	3.6	15.6	.5	.0	.6	.1	72.1
0600	7.5	5.2	1.4	.0	.0	.0	.2	14.2	4.4	11.4	.4	.0	.5	.0	70.8
1200	5.5	4.5	1.2	.0	.0	.0	.0	11.1	4.2	.6	.4	.0	.3	.1	83.5
1800	3.9	4.4	.7	.0	.0	.0	.0	9.0	4.2	2.6	.5	.0	.5	.2	83.4
TOT PCT	5.5	4.3	1.0	.0	.0	.0	.1	10.9	4.1	7.4	.4	.0	.5	.1	77.6
TOT OBS:	7226														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	7.6	1.5	*	.0	.0		10.6	7.3		8.2	7.3	9.6	10.8	14.5	8.7	11.3	7.9
NE	.7	3.1	.9	.1	*	.0		4.8	7.8		3.3	3.9	4.6	5.6	6.2	8.9	4.5	4.0
E	.6	2.1	.6	.1	*	.0		3.4	8.2		2.0	4.2	3.1	5.4	4.9	4.9	2.9	2.5
SE	1.1	4.5	1.4	.1	*	.0		7.2	7.9		6.3	7.9	6.6	7.8	8.5	8.7	7.1	6.4
S	2.0	9.9	3.0	.1	.0	.0		15.0	7.7		14.3	14.8	14.1	12.9	14.2	17.2	15.7	16.3
SW	1.9	14.0	3.7	.1	*	.0		19.8	7.9		21.9	18.4	19.5	18.2	16.1	16.1	20.4	25.0
W	2.0	11.4	2.4	*	*	.0		15.8	7.3		16.9	18.7	17.3	14.1	13.9	15.7	15.8	15.6
NW	2.0	11.9	2.7	*	*	.0		16.6	7.4		16.2	18.1	17.4	18.0	16.5	16.6	16.4	14.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.9							6.9	.0		8.9	6.6	7.8	6.2	5.2	3.2	6.0	7.4
TOT OBS	2009	7020	1762	67	7	0	10865		7.1		2136	167	2102	955	2225	158	2158	964
TOT PCT	18.5	64.6	16.2	.6	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	5.2	5.1	.3	*	.0			10.6	7.3		8.2	10.0	14.1	10.2
NE	2.4	2.2	.2	*	.0			4.8	7.8		3.3	3.9	4.6	4.5
E	1.7	1.4	.2	.1	.0			3.4	8.2		2.2	3.8	4.9	2.8
SE	3.3	3.4	.4	*	.0			7.2	7.9		6.3	7.0	8.5	6.9
S	7.2	7.3	.5	*	.0			15.0	7.7		16.2	13.7	14.4	15.9
SW	9.0	10.0	.8	*	.0			19.8	7.9		21.7	19.1	16.1	21.8
W	7.9	7.6	.3	*	.0			15.8	7.3		17.0	16.3	14.0	15.8
NW	8.3	7.8	.5	*	.0			16.6	7.4		16.3	17.6	16.5	15.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	6.9							6.9	.0		8.7	7.3	5.0	6.4
TOT OBS	5632	4664	349	20	0	10865			7.1		2303	3057	2383	3122
TOT PCT	51.8	44.8	3.2	.2	.0			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	8.7	10.7	63.7	16.3	.6	.0	.0	7.0	100.0	2303
0609	7.3	11.4	65.3	15.0	.9	.1	.0	7.0	100.0	3057
12015	5.0	11.5	65.6	17.2	.5	.1	.0	7.3	100.0	2383
18021	6.4	12.7	63.9	16.6	.5	.0	.0	7.1	100.0	3122
TOT	7.45	12.64	70.20	17.62	.67	.7	.0	7.1	100.0	10865
PCT	6.9	11.0	64.6	16.2	.6	.1	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.7	2.4	4.1	2.8		4.8
NE	.7	.6	1.7	1.7		5.7
E	.2	.5	1.2	1.3		6.1
SE	.8	1.1	2.7	2.4		5.9
S	1.4	2.2	6.5	4.7		5.9
SW	2.5	2.5	7.6	5.3		5.6
W	3.3	2.6	6.6	4.0		5.1
NW	3.7	3.3	6.2	4.1		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	1.5	2.1	1.2		4.4
TOT OBS	865	856	1953	1389	5063	5.3
TOT PCT	17.1	16.9	38.6	27.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	6000+ NH <5/8	TOTAL
	149	299	599	999	1799	3499	4999	6499	7999	ANY HGT	OBS
N	.0	*	.1	.7	1.5	.8	.4	.1	*	.1	8.0
NE	.0	*	.1	.4	.8	.4	.3	.1	.1	.1	2.4
E	*	*	.1	.5	.6	.3	.2	*	*	*	1.4
SE	*	*	.2	.8	1.2	.8	.3	.2	*	*	3.4
S	*	.1	.3	1.5	2.6	1.8	.7	.2	*	*	7.5
SW	.1	.1	.4	1.8	3.1	2.1	.7	.2	*	*	9.4
W	*	.0	.1	1.4	2.5	1.4	.4	.1	.1	.2	10.4
NW	*	*	.3	.9	2.0	1.5	.4	.2	.1	.2	11.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	*	.1	.4	.8	.5	.1	*	.1	.1	4.5
TOT OBS	10	12	84	427	759	490	175	57	24	60	2965
TOT PCT	.2	.2	1.7	8.4	15.0	9.7	3.5	1.1	.5	1.2	58.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5000	2.3	2.7	2.8	2.8	2.8	2.8	2.8	2.8
= OR >3500	5.1	5.9	6.1	6.1	6.1	6.1	6.1	6.1
= OR >2000	13.1	15.4	15.8	15.8	15.9	15.9	15.9	15.9
= OR >1000	24.6	29.2	30.1	30.2	30.3	30.3	30.3	30.3
= OR >500	30.1	36.7	38.1	38.4	38.5	38.5	38.6	38.6
= OR >300	30.9	38.0	39.7	39.9	40.0	40.1	40.2	40.2
= OR >150	31.0	38.1	39.9	40.2	40.3	40.3	40.4	40.4
= OR >0	31.1	38.3	40.0	40.3	40.4	40.5	40.6	40.6
TOTAL	1757	2164	2263	2278	2284	2289	2294	2295

TOTAL NUMBER OF OBS: 5654

PCT FREQ NH <5/8: 59.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.1	10.3	14.0	13.5	11.8	8.1	9.1	7.6	16.4	.1	6018

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	*	.1	.1	.0	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	.0	*	*	.1	.1	.0	*	.0	.0	.2	
1/2<1	PCP	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	*	*	.0	*	*	*	*	.0	.0	.2	
	TOT %	.1	.1	*	.0	.1	*	*	*	.0	.0	.3	
1<2	PCP	*	*	*	*	.1	*	.1	*	.0	*	.3	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	TOT %	*	*	*	*	.1	*	.1	*	.0	*	.5	
2<5	PCP	.1	.1	.1	.3	.3	.4	.1	.2	.0	.0	1.5	
	NO PCP	.1	.1	*	*	*	.1	.1	.1	.0	*	.6	
	TOT %	.1	.2	.1	.3	.3	.5	.3	.2	.0	*	2.1	
5<10	PCP	.4	.4	.3	.5	1.0	1.3	.6	.6	.0	.1	5.2	
	NO PCP	1.6	.9	.5	1.3	2.4	2.4	2.4	2.6	.0	.8	15.0	
	TOT %	2.0	1.3	.9	1.8	3.4	3.7	3.1	3.2	.0	1.0	20.2	
10+	PCP	.2	.2	.2	.3	.7	1.0	.0	.3	.0	.2	3.7	
	NO PCP	9.1	3.2	2.7	5.0	10.5	12.5	12.1	13.3	.0	5.0	73.0	
	TOT %	9.3	3.5	2.9	5.3	11.2	13.5	12.7	13.6	.0	5.2	76.7	
TOT OBS													
TOT PCT													
		11.6	5.0	3.4	7.5	15.2	17.8	16.2	17.2	.0	6.2	100.0	6426

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	.0	*	.0	.0	*	
	4-10	.0	.0	*	*	*	*	.0	*	.0	.0	.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	*	.0	*	.0	*	*	.0	*	.0	*	*	
	TOT %	*	.0	*	*	.1	.1	.0	*	.0	.0	.2	
1/2<1	0-3	*	.0	.0	.0	*	*	.0	*	.0	.0	.1	
	4-10	*	*	*	*	*	*	.0	.0	.0	.0	.2	
	11-21	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	*	*	.1	*	*	*	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	4-10	.0	*	*	*	.1	.1	.1	*	.0	*	.3	
	11-21	*	*	*	*	*	*	*	*	.0	*	.2	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	.1	.1	.1	.1	.0	*	.6	
2<5	0-3	*	*	.0	.1	*	*	*	*	.0	.1	.3	
	4-10	.1	.1	.1	.1	.2	.4	.2	.1	.0		1.5	
	11-21	*	.1	*	.1	.1	.2	.1	.1	.0		.7	
	22+	*	*	*	.0	*	*	*	*	.0	.1	.1	
	TOT %	.2	.2	.2	.3	.4	.7	.3	.3	.0	.1	2.6	
5<10	0-3	.2	.2	.1	.2	.3	.3	.2	.0	1.1		3.0	
	4-10	1.3	.6	.5	1.0	2.1	2.5	2.0	1.9	.0		11.8	
	11-21	.3	.4	.2	.4	1.0	1.1	.6	.7	.0		4.6	
	22+	*	*	*	.1	*	.1	.0	.0	.0		.2	
	TOT %	1.7	1.2	.8	1.7	3.4	4.0	2.9	2.8	.0	1.1	19.7	
10+	0-3	1.1	.5	.5	.9	1.5	1.6	1.9	1.6	.0	5.7	15.2	
	4-10	6.5	2.4	1.4	3.5	7.5	10.6	9.0	9.7	.0		50.6	
	11-21	1.1	.5	.4	.9	1.9	2.2	1.7	2.1	.0		10.7	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	8.8	3.4	2.2	5.3	10.9	14.5	12.5	13.4	.0	5.7	76.6	
TOT OBS													
TOT PCT													
		10.8	4.9	3.4	7.4	14.9	19.3	15.9	16.6	.0	6.9	100.0	8095

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.1	1.9	8.2	12.1	8.1	2.7	.6	.2	1.4	35.7	64.3	1411
06009	.2	.4	2.1	8.4	16.0	10.5	3.5	1.7	.3	1.1	44.1	55.9	1387
12015	.1	.2	1.3	8.2	14.3	9.1	3.9	.7	.7	1.1	39.6	60.4	1524
18021	.1	.2	1.0	7.3	13.7	10.1	2.7	1.5	.7	1.1	38.2	61.8	1512
TOT	10	14	91	467	818	551	187	84	28	68	2298	3536	5634
PCT	.2	.2	1.6	8.0	14.0	9.4	3.2	1.1	.5	1.2	39.4	60.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.2	.6	2.3	20.1	76.7	2056
06009	.3	.5	.6	3.1	24.0	71.5	2326
12015	.2	.3	.4	2.7	15.5	80.9	2097
18021	.2	.3	.5	2.0	18.7	78.3	2413
TOT	21	28	46	224	1747	6826	8892
PCT	.2	.3	.5	2.5	19.6	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	2.6	12.3	25.3	62.4	1348
06009	.2	3.2	12.9	32.7	54.3	1347
12015	.1	1.9	11.7	29.0	59.2	1491
18021	.1	1.4	9.8	29.7	60.5	1468
TOT	10	127	659	1651	3344	5634
PCT	.2	2.2	11.7	29.2	59.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.1	*	*	.0	7	.1
85/89	.0	.0	.0	*	.6	2.8	.6	.2	233	4.3
80/84	.0	.0	.0	.1	1.8	25.4	31.4	4.3	3435	63.0
75/79	.0	.0	.0	*	.1	4.5	16.7	9.3	1670	30.0
70/74	.0	.0	.0	.0	.0	.1	.7	1.2	106	1.9
65/69	.0	.0	.0	.0	.0	.0	*	.0	2	*
TOTAL	0	0	0	10	140	1790	2700	813	5453	100.0
PCT	.0	.0	.0	.2	2.6	32.8	49.5	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	*	*	.0	*
.7	.2	.1	.2	.4	.6	.7	.9	.0	.5
6.4	2.6	1.9	4.4	9.7	11.5	11.5	10.7	.0	4.3
4.1	2.1	1.2	2.6	4.6	5.5	4.0	9.1	.0	1.5
.4	.2	.2	.2	.2	.2	.1	.4	.0	.0
*	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.7	5.0	3.4	7.5	14.8	17.8	16.3	17.2	.0	6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	84	82	80	76	73	69	79.8	2519
06009	88	84	82	80	75	73	67	79.4	3281
12015	92	88	86	82	76	74	72	81.3	2535
18021	92	87	85	81	76	74	66	80.8	3308
TOT	92	87	84	80	76	73	66	80.3	11643

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	.9	23.6	60.2	15.2	84	1509
06009	.0	.1	.6	22.2	57.6	19.4	84	1527
12015	.0	.6	5.3	45.5	36.4	12.2	80	1526
18021	.0	.1	3.2	41.2	44.1	11.3	81	1577
TOT	0	14	155	2039	3041	890	82	6139

JUNE

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1835-1973AREA 0009 CONAKRY
9.1N 15.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DFG F)

AIR-SEA TMP DIF	65 85	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	*	6	.0	.1
9/10	.0	.0	.0	.1	.1	*	.1	16	.0	.2
7/8	.0	.0	*	*	.1	.1	.1	21	.0	.3
6	.0	.0	*	*	.1	.1	*	20	.0	.3
5	.0	.0	*	.1	.1	.4	.1	50	*	.8
4	.0	.0	*	.1	.4	.6	.1	77	.0	1.2
3	.0	.0	*	.2	.9	.7	.0	116	.0	1.8
2	.0	.0	.0	.5	2.2	.9	*	236	.1	3.6
1	.0	.0	.1	1.4	4.8	.8	.0	460	.1	7.1
0	.0	.0	.3	3.4	8.2	.6	.0	803	*	12.4
-1	.0	.0	.3	7.0	11.5	.3	.0	1227	.1	18.9
-2	.0	*	.5	8.9	9.1	.1	.0	1191	.1	18.4
-3	*	*	.6	8.9	4.3	.1	.0	897	.0	13.9
-4	.0	*	.7	6.1	2.0	.0	.0	569	*	8.8
-5	.0	*	1.1	3.8	1.1	.0	.0	385	.0	6.0
-6	*	*	.9	1.4	.2	.0	.0	164	*	2.5
-7/-8	.0	*	1.2	1.1	.1	.0	.0	154	.0	2.4
-9/-10	.0	*	.3	.2	.0	.0	.0	36	*	.5
-11/-13	.0	*	.2	*	.0	.0	.0	13	.0	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	2		406	2791	2905	304	22	6442	31	64.1
PCT	*	.2	6.3	43.3	45.1	4.7	.3	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.0	.0	.0	.0	1.8	.3	.0	*	.0	.0	.0	.9
1-2	.6	5.9	.5	.0	.0	.0	7.0	.1	1.9	.2	.0	.0	.0	2.2
3-4	.0	1.8	1.1	.0	.0	.0	2.9	*	.5	.5	*	.0	.0	1.1
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.1	.1	*	.0	.0	.2
7	.0	*	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
8-9	.0	*	.0	*	.0	.0	.1	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	9.1	1.8	*	.0	.0	12.0	.5	3.0	.9	.1	.0	.0	4.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.1	.0	.0	.0	.6	.7	1.0	.0	.0	.0	.0	1.7
1-2	.2	1.2	.2	.0	.0	.0	1.6	.3	2.7	.4	.0	.0	.0	3.4
3-4	*	.4	.3	*	.0	.0	.7	*	1.0	.5	*	.0	.0	1.6
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.1	.2	.1	.0	.0	.3
7	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.9	.7	.1	.0	.0	3.2	1.1	4.7	1.3	.1	.0	.0	7.2

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.0	*	.0	.0	.0	2.9	.9	2.2	*	.0	.0	.0	3.1
1-2	.6	5.8	1.0	.0	.0	.0	7.3	.8	6.8	.8	.0	.0	.0	8.4
3-4	.1	2.2	1.6	.0	.0	.0	3.9	*	2.2	1.5	.0	.0	.0	3.7
5-6	.0	.1	.6	.0	.0	.0	.7	.0	.2	.9	.0	.0	.0	1.0
7	.0	*	.0	*	.0	.0	.1	.0	.1	.2	.0	*	.0	.3
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	10.1	3.2	*	.0	.0	14.9	1.7	11.4	3.4	.0	*	.0	16.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	2.3	.2	.0	.0	.0	3.5	1.2	2.0	*	.0	.0	.0	.0	9.0
1-2	.8	7.1	.9	.0	.0	.0	8.8	.7	7.1	1.2	.0	.0	.0	.0	9.0
3-4	.1	1.9	1.1	.0	.0	.0	3.1	.0	2.2	1.4	.0	.0	.0	.0	3.6
5-6	.0	.3	.4	.0	.0	.0	.7	.0	.3	.8	*	.0	.0	.0	1.1
7	.0	*	.1	.0	.0	.0	.2	.0	*	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	11.7	2.7	.0	.0	.0	16.3	1.8	11.7	3.6	*	.0	.0	17.2	91.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.1	11.4	.3	.0	.0	.0	28.9	
1-2	4.9	36.8	4.8	.0	.0	.0	46.5	
3-4	.3	11.4	7.4	.1	.0	.0	19.1	
5-6	.0	1.2	2.9	.1	.0	.0	4.2	
7	.0	.2	.6	.1	*	.0	.9	
8-9	.0	*	.2	.1	.0	.0	.3	
10-11	.0	*	.0	.0	.0	.0	*	
12	.0	.0	.0	*	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	22.3	61.0	16.3	.3	*	.0	100.0	3465

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	14.2	14.2	5.2	1.1	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1729
6-7	.1	2.1	8.5	6.9	2.2	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	922
8-9	*	.8	3.8	3.1	1.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	453
10-11	.0	.8	.8	1.1	.3	.1	.1	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151
12-13	.0	.0	1.2	.7	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106
>13	.0	.0	.0	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
INDET	7.2	6.7	6.3	3.3	1.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1123
TOTAL	470	1101	1566	937	312	81	29	8	5	3	0	0	0	0	0	0	0	0	0	0	4512
PCT	10.4	24.4	34.7	20.8	6.9	1.8	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

JULY

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	9.3	4.8	1.4	.0	.0	.0	.0	15.5	3.1	4.1	2.5	.0	.0	.0	75.8	
NE	14.4	7.4	2.4	.0	.0	.0	.0	24.2	5.5	4.6	1.0	.0	.0	1.0	65.2	
E	17.2	9.1	2.6	.0	.0	.0	.0	28.9	7.8	9.1	.0	.0	.0	.0	60.2	
SE	7.0	10.0	1.4	.0	.0	.0	.4	18.6	9.4	6.8	.8	.0	.0	.0	65.6	
S	7.7	8.8	1.8	.0	.0	.0	.0	18.0	8.4	5.1	.2	.0	.1	.1	70.5	
SW	11.4	8.6	2.0	.0	.0	.0	.0	21.9	10.1	3.1	.3	.0	.1	.1	65.1	
W	10.1	8.6	1.6	.0	.0	.0	.0	20.1	11.0	5.0	.2	.0	.0	.0	64.4	
NW	7.6	7.3	.7	.0	.0	.0	.0	15.6	7.8	6.1	.3	.0	.2	.0	70.9	
VAR	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2	3.5	.0	.0	.0	.0	.0	7.6	5.6	7.6	.7	.0	.0	.0	78.5	
TOT PCT	9.7	8.4	1.7	.0	.0	.0	*	19.7	9.3	4.0	.3	.0	.1	.1	67.3	
TOT OBS:	7536															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	8.6	7.1	1.8	.0	.0	.0	.1	17.4	8.8	9.6	.2	.0	.1	.1	65.0
06009	11.9	9.4	2.0	.0	.0	.0	.0	23.0	8.5	6.4	.6	.0	.0	.1	62.9
12015	9.6	8.4	1.8	.0	.0	.0	.0	19.6	10.7	.3	.2	.0	.1	.1	69.3
18021	9.3	8.1	1.4	.0	.0	.0	.0	18.6	8.8	1.6	.5	.0	*	.1	71.0
TOT PCT	9.8	8.3	1.7	.0	.0	.0	*	19.7	9.2	4.4	.4	.0	.1	.1	67.1
TOT OBS:	7910														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.2	.5	*	*	.0		2.8	7.6	2.3	.4	1.9	3.4	3.8	3.1	3.3	2.1	
NE	.2	.8	.2	*	*	.0		1.4	7.9	1.1	.7	.9	1.8	2.2	1.2	1.2	.9	
E	.2	.8	.3	*	*	.0		1.3	8.7	1.1	.6	1.6	2.0	1.6	1.4	1.1	.2	
SE	.3	1.9	.9	*	*	.0		3.1	9.0	2.6	1.8	3.4	3.1	4.1	3.1	2.8	2.2	
S	1.1	11.0	9.8	.6	*	.0		22.6	10.8	23.9	24.9	21.5	19.2	22.4	27.9	24.5	20.0	
SW	1.4	20.1	17.6	.9	*	.0		40.0	10.8	40.9	42.1	40.9	39.3	37.5	40.4	39.5	43.5	
W	1.0	11.1	6.3	.4	*	.0		18.7	9.8	18.4	21.3	19.4	19.1	17.7	17.1	18.0	21.9	
NW	.6	5.1	2.2	.1	.0	.0		8.0	8.9	7.3	5.9	8.7	9.8	8.4	4.8	7.5	7.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1	.0	.0	.0	.0	.0		2.1	.0	2.3	2.4	1.8	2.3	2.4	1.1	2.0	1.9	
TOT OBS	905	6450	4619	267	8	0	12249		10.0	2450	170	2394	1022	2537	184	2450	1042	
TOT PCT	7.4	52.7	37.7	2.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.3	1.3	.1	*	.0		2.8	7.6	2.1	2.3	3.7	3.0
NE	.7	.5	.1	*	.0		1.4	7.9	1.1	1.2	2.1	1.1
E	.5	.6	.1	*	.0		1.3	8.7	1.1	1.7	1.6	.9
SE	1.2	1.7	.2	*	.0		3.1	9.0	2.6	3.3	4.0	2.6
S	5.2	14.1	3.3	*	.0		22.6	10.8	24.0	20.8	22.8	23.2
SW	8.0	26.5	5.4	.1	.0		40.0	10.8	41.0	40.4	37.7	40.7
W	5.1	12.0	1.6	.1	.0		18.7	9.8	18.6	19.3	17.6	19.2
NW	2.7	4.8	.5	*	.0		8.0	8.9	7.2	9.0	8.1	7.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1	.0	.0	.0	.0		2.1	.0	2.3	1.9	2.3	2.0
TOT OBS	3292	7541	1378	38	0	12249		10.0	2620	3416	2721	3492
TOT PCT	26.9	61.6	11.2	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1973
(COVER-ALL) 1854-1973

JULY

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4**	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.3	4.6	53.1	37.9	2.0	.1	.0	10.0	100.0	2620	
06004	1.9	5.3	54.6	35.9	2.2	.1	.0	9.9	100.0	3416	
12015	2.3	5.5	53.5	36.9	1.9	.0	.0	9.9	100.0	2721	
18021	2.0	5.6	49.9	40.0	2.5	*	.0	10.3	100.0	3492	
TOT	260	645	6430	4619	267	8	0	10.0		12249	
PCT	2.1	5.3	52.7	37.7	2.2	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN
				OBSCD	OBS	CLOUD COVER
N	.3	.5	1.1	.6		5.6
NE	.2	.1	.5	.6		6.2
E	.1	.2	.5	.7		6.2
SE	.3	.7	1.5	1.1		5.9
S	1.9	3.3	10.0	10.0		6.2
SW	1.9	3.5	15.2	17.8		6.6
W	1.1	2.1	7.0	7.3		6.4
NW	.9	1.3	2.9	2.8		5.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.4	.8	.4		5.0
TOT OBS	413	705	2317	2418	5853	6.3
TOT PCT	7.1	12.0	39.6	41.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	*	*	.2	.5	.3	.1	*	*	*	1.3	
NE	.0	*	*	.1	.3	.3	*	.0	.0	.0	.5	
E	*	.0	.2	.2	.4	.2	*	*	.0	.0	.5	
SE	.1	.0	.1	.4	.9	.4	.1	*	.0	*	1.6	
S	.2	.1	.8	2.9	5.7	3.5	.8	.2	.1	.1	10.7	
SW	.3	.1	1.1	5.7	9.1	5.0	1.7	.5	.2	.3	14.6	
W	.1	.1	.6	2.6	3.9	1.9	.6	.1	*	.1	7.5	
NW	.0	.1	.1	.7	1.6	1.0	.4	.1	.1	*	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.2	.4	.2	*	*	.0	.1	1.1	
TOT OBS	43	23	170	767	1333	742	218	56	26	37	2443	5853
TOT PCT	.7	.4	2.9	13.0	22.8	12.7	3.7	1.0	.4	.6	41.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.7	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	4.7	5.6	5.7	5.7	5.7	5.7	5.7	5.7
* OR >2000	14.0	17.5	18.1	18.2	18.3	18.3	18.3	18.3
* OR >1000	30.2	38.7	40.5	40.8	40.9	40.9	40.9	40.9
* OR >600	38.4	50.1	52.9	53.5	53.6	53.7	53.7	53.7
* OR >300	40.0	52.7	55.7	56.4	56.5	56.6	56.6	56.6
* OR >150	40.1	53.0	56.1	56.7	56.9	57.0	57.0	57.0
* OR >0	40.3	53.4	56.6	57.3	57.5	57.7	57.7	57.8
TOTAL	2442	3259	3456	3499	3511	3521	3523	3526

TOTAL NUMBER OF OBS: 6105

PCT FREQ NH <5/8: 42.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.6	5.5	9.4	12.1	11.7	9.2	10.7	10.5	27.8	.5	6520

PERIOD: (PRIMARY) 1923-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	*	.1	.1	*	*	.0	.0	.2	
	NO PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.1	.1	*	*	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	*	.1	.1	*	*	.0	.0	.2	
	NO PCP	*	*	.0	*	*	*	*	.0	.0	.0	.1	
	TOT %	*	*	.0	*	.1	.1	*	*	.0	.0	.4	
1<2	PCP	*	*	.1	*	.1	.2	.1	*	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	TOT %	*	*	.1	*	.1	.3	.1	*	.0	.0	.6	
2<5	PCP	*	*	*	.1	.5	1.3	.5	.1	.0	*	2.6	
	NO PCP	*	*	*	*	.2	.3	.2	.1	.0	*	.8	
	TOT %	.1	.1	.1	.2	.7	1.5	.6	.2	.0	*	3.4	
5<10	PCP	.2	.2	.1	.2	2.3	4.3	1.8	.7	.0	.1	9.9	
	NO PCP	.3	.2	.2	.4	4.0	6.1	3.0	1.2	.0	.2	15.8	
	TOT %	.7	.4	.4	.7	6.3	10.4	4.8	1.9	.0	.3	25.8	
10+	PCP	.1	.1	.2	.2	1.5	2.4	1.2	.3	.0	.1	6.1	
	NO PCP	1.7	.4	.8	2.3	16.0	23.7	11.1	5.4	.0	1.5	63.4	
	TOT %	1.9	.9	1.0	2.5	17.5	26.1	12.3	5.7	.0	1.6	69.5	
TOT OBS													7533
TOT PCT		2.6	1.4	1.5	3.4	24.8	38.6	17.8	7.9	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	*	.0	.0	.0		.1	
	11-21	.0	*	.0	.0	*	.1	*	.0	.0		.1	
	22+	.0	.0	.0	*	.0	*	*	*	.0		.1	
	TOT %	.0	*	*	*	.1	.1	*	*	.0	.0	.3	
1/2<1	0-3	.0	0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	*	.1	*	*	.0		.2	
	11-21	*	*	.0	*	.1	.1	*	*	.0		.2	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	TOT %	*	*	.0	*	.1	.2	.1	*	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	*	.2	.1	*	.0		.4	
	11-21	.0	.0	*	*	.1	.2	.1	*	.0		.4	
	22+	.0	*	*	*	*	*	*	.0	.0		.1	
	TOT %	*	*	.1	*	.1	.4	.2	.1	.0	*	1.0	
2<5	0-3	*	.0	.0	*	.0	*	*	.0	.0	*	.1	
	4-10	.1	*	*	*	.2	.6	.4	.2	.0		1.6	
	11-21	.0	*	*	.1	.5	1.1	.4	.1	.0		2.2	
	22+	.0	*	*	.0	.1	.1	.1	*	.0		.2	
	TOT %	.1	.1	.1	.2	.8	1.8	.8	.3	.0	*	4.1	
5<10	0-3	.1	.1	*	*	.3	.4	.3	.1	.0	.4	1.7	
	4-10	.5	.2	.2	.4	2.7	5.1	2.5	1.1	.0		12.7	
	11-21	.1	.1	.1	.2	2.7	4.8	1.7	.5	.0		10.1	
	22+	*	*	*	*	.3	.3	.1	*	.0		.8	
	TOT %	.7	.3	.3	.6	5.9	10.6	4.7	1.7	.0	.4	25.2	
10+	0-3	.3	.2	.1	.2	.9	1.0	.7	.5	.0	1.5	5.4	
	4-10	1.2	.6	.6	1.5	8.5	14.6	7.8	3.8	.0		38.5	
	11-21	.3	.1	.2	.7	7.0	11.0	3.9	1.3	.0		24.4	
	22+	*	*	.0	*	.2	.3	.1	*	.0		.7	
	TOT %	1.8	.9	.9	2.4	16.6	26.8	12.5	5.6	.0	1.5	69.0	
TOT OBS													9410
TOT PCT		2.6	1.3	1.3	3.3	23.6	39.9	18.3	7.7	.0	1.9	100.0	

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

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AREA 0009 CONAKRY
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	1.3	.2	2.5	12.2	20.8	11.7	2.4	.7	.4	.9	53.1	46.9	1423
06009	1.0	.4	3.5	14.5	23.5	11.5	4.2	1.0	.5	.9	60.9	39.1	1467
12015	.6	.5	2.9	12.3	22.5	13.1	3.4	.7	.5	.7	57.1	42.9	1710
18021	.2	.4	2.6	11.4	21.9	12.8	4.4	1.3	.4	.1	55.6	44.4	1636
TOT	46	23	181	781	1384	769	225	88	28	40	3535	2701	6236
PCT	.7	.4	2.9	12.5	22.2	12.3	3.6	.9	.4	.6	56.7	43.3	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.2	.4	.6	3.3	23.7	71.7	2243
06009	.2	.6	1.1	4.8	29.6	63.7	2576
12015	.4	.4	1.2	4.6	27.0	71.4	2331
18021	.2	.5	1.0	3.3	24.9	70.2	2637
TOT	24	46	96	342	2462	8785	9787
PCT	.2	.5	1.0	4.0	25.2	69.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	1.3	4.2	18.4	36.1	45.6	1389
06009	1.0	5.0	22.6	39.7	37.7	1440
12015	.6	4.4	19.3	38.9	41.8	1680
18021	.3	3.6	17.3	40.0	42.7	1596
TOT	47	262	1182	2364	2559	6105
PCT	.8	4.3	19.4	38.7	41.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	.*	.*	.0	.0	3	.*
85/89	.0	.0	.0	.0	.4	.8	.3	.1	98	1.5
80/84	.0	.0	.0	.*	1.1	18.5	10.7	7.3	2620	41.1
75/79	.0	.0	.0	.*	.2	8.3	20.3	14.9	3481	54.6
70/74	.0	.0	.0	.0	.0	.*	.2	2.4	148	2.0
65/69	.0	.0	.0	.0	.0	.0	.0	.*	2	.*
TOTAL	0	0	0	4	113	1758	3121	1376	6372	100.0
PCT	.0	.0	.0	.1	1.8	27.6	49.0	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.*	.0	.*	.*	.0	.0
85/89	.2	.*	.*	.1	.3	.2	.3	.3	.0	.*
80/84	1.3	.6	.7	1.4	10.2	13.8	7.5	4.3	.0	1.2
75/79	.9	.6	.7	1.6	13.4	23.9	10.0	2.9	.0	.6
70/74	.2	.1	.1	.1	.7	1.0	.3	.1	.0	.*
65/69	.*	.0	.0	.0	.0	.*	.*	.*	.0	.0
TOTAL	2.6	1.3	1.6	3.2	24.6	39.0	18.1	7.7	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	88	82	81	79	75	73	68	78.6	2709
06009	90	83	81	78	75	72	69	78.3	3506
12015	92	86	84	80	75	73	69	79.9	2804
18021	91	86	83	79	75	73	69	79.3	3561
TOT	92	85	83	79	75	73	68	79.0	12580

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	.0	.9	22.0	55.1	22.0	84	1616		
06009	.0	.0	.4	21.0	52.7	25.9	85	1661		
12015	.0	.1	3.6	37.0	41.0	18.3	82	1693		
18021	.0	.1	2.6	30.6	46.9	19.7	83	1712		
TOT	0	4	126	1854	3263	1435	84	6682		

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PERIOD: (PRIMARY) 1923-1973
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TABLE 17

AREA 0009 CONAKRY
9.1N 15.7WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	64 72	73 76	77 80	81 84	85 88	89 92	TOT	W FDG	WD FUG
11/13	.0	.0	*	.0	.0	.0	1	.0	*
9/10	.0	.0	.0	*	.0	*	3	.0	*
7/8	.0	.0	.1	.1	.1	*	19	.0	.3
6	.0	.0	*	.1	.1	*	16	.0	.2
5	.0	.0	.1	.2	.1	.0	32	.0	.4
4	.0	.0	.2	.4	.3	*	70	*	1.0
3	.0	*	.3	.7	.3	*	99	*	1.4
2	.0	.0	.6	1.3	.3	*	196	*	2.7
1	.0	*	1.8	3.2	.4	.0	383	*	5.4
0	.0	.1	6.5	6.1	.1	.0	913	.1	12.8
-1	.0	.2	14.3	5.1	*	.0	1399	.1	19.6
-2	*	.4	15.0	3.8	.0	.0	1368	.1	19.1
-3	*	1.4	11.8	1.7	.0	.0	1059	.1	14.8
-4	.0	2.1	6.4	.5	.0	.0	641	*	9.0
-5	*	2.7	3.6	.5	.0	.0	481	.0	6.8
-6	*	1.5	1.0	.1	.0	.0	190	*	2.7
-7/-8	.1	1.6	.7	.1	.0	.0	174	.0	2.4
-9/-10	.2	.5	.1	.0	.0	.0	54	.0	.8
-11/-13	.1	.1	.1	.0	.0	.0	23	*	.3
-14/-16	*	*	.0	.0	.0	.0	3	.0	*
TOTAL	37		4455	177	9		7124	29	7095
PCT		.5	10.7	62.5	24.4	1.8	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.1	.2	.0	.0	.0	.0	.3
1-2	.1	1.0	.1	.0	.0	.0	1.2	.1	.5	.1	.0	.0	.0	.7
3-4	.0	.3	.1	.0	.0	.0	.4	*	.2	.2	*	.0	.0	.5
5-6	*	*	.1	.0	.0	.0	.2	.0	*	*	.0	.0	.0	*
7	.0	*	*	.0	.0	.0	.1	.0	*	.0	*	.0	.0	*
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	.3	.0	.0	.0	2.3	.3	1.0	.3	.1	.0	.0	1.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3	.1	.4	*	.0	.0	.0	.6
1-2	*	.6	.1	.0	.0	.0	.7	*	1.0	.2	.0	.0	.0	1.2
3-4	.0	.2	.2	*	.0	.0	.4	.0	.5	.4	*	.0	.0	.9
5-6	.0	*	.1	.0	.0	.0	.1	*	*	.3	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.0	.4	*	.0	.0	1.5	.2	2.0	1.0	*	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.1	.0	.0	.0	2.4	.7	2.4	.2	.0	.0	.0	3.4
1-2	.5	6.3	2.4	.0	.0	.0	9.2	.4	10.1	3.1	.0	.0	.0	13.7
3-4	.1	3.1	5.7	.1	.0	.0	8.5	.1	5.0	7.9	.2	.0	.0	13.1
5-6	.0	.5	3.0	.1	.0	.0	3.6	.0	.9	4.4	.2	.0	.0	5.5
7	.0	.1	.9	.1	.0	.0	1.0	.0	.1	1.1	.1	.0	.0	1.2
8-9	.0	.0	.1	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	11.7	11.8	.3	.0	.0	25.1	1.2	18.5	17.0	.8	.0	.0	37.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.9	.0	.0	.0	.0	1.3	.2	.9	.0	.0	.0	.0	1.2	
1-2	.3	7.1	1.7	.0	.0	.0	9.2	.2	3.0	.6	.0	.0	.0	3.8	
3-4	.0	2.8	2.9	.1	.0	.0	5.8	.0	1.1	.8	.0	.0	.0	1.8	
5-6	.0	.3	1.6	.1	.0	.0	2.0	.0	.1	.3	.1	.0	.0	.5	
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	11.1	6.7	.4	.0	.0	18.9	.4	5.1	1.7	.1	.0	.0	7.4	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	7.4	.4	.0	.0	.0	14.2	
1-2	2.0	29.2	8.1	.0	.0	.0	39.3	
3-4	.3	12.9	17.1	.4	.0	.0	30.6	
5-6	.1	1.9	9.5	.5	.0	.0	12.0	
7	.0	.2	2.3	.4	.0	.0	2.9	
8-9	.0	.1	.3	.1	.0	.0	.5	
10-11	.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.7	51.7	37.9	1.6	.0	.0	100.0	4070

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.5	11.2	15.1	6.9	2.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1902	3
6-7	.0	1.3	9.0	9.9	4.4	1.1	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1353	5
8-9	.0	.4	1.9	4.0	2.6	.9	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	533	6
10-11	.0	.6	.7	.8	.9	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	5
12-13	.0	.0	1.0	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
>13	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
INDET	3.0	4.8	5.3	3.6	1.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	969	3
TOTAL	227	929	1677	1329	615	169	86	23	18	6	1	0	0	0	0	0	0	0	0	0	5080	4
PCT	4.5	18.3	33.0	26.2	12.1	3.3	1.7	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	8.7	3.3	2.1	.0	.0	.0	.0	14.8	6.7	7.3	.0	.0	.8	.0
NE	17.4	.0	.0	.0	.0	.0	.0	17.4	8.4	4.8	.0	.0	.0	.0
E	15.3	6.5	.0	.0	.0	.0	.0	21.8	15.3	.0	.0	.0	1.6	.0
SE	10.5	9.3	1.6	.0	.0	.0	.0	21.5	9.5	1.8	.0	.0	.4	.0
S	8.6	8.4	3.1	.0	.0	.0	*	20.1	9.2	1.2	.2	.0	.1	.0
SW	10.6	9.2	2.5	.0	.0	.0	*	22.0	9.7	1.3	.4	.0	.2	.0
W	12.2	9.1	2.5	.0	.0	.0	.1	23.7	10.0	2.2	.2	.0	.1	.0
NW	11.2	6.9	2.2	.0	.0	.0	.0	20.2	7.0	3.2	.4	.0	.4	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0	1.5	.0	.0	.0	.0	.0	7.5	9.0	4.5	.0	.0	.0	1.5
TOT PCT	10.6	8.6	2.6	.0	.0	.0	*	21.6	9.5	1.8	.3	.0	.2	*
TOT OBS:	7640													67.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
0000	9.3	7.9	2.4	.0	.0	.0	.0	19.3	9.6	3.1	.1	.0	.1	.0
0600	13.2	10.0	2.8	.0	.0	.0	.1	26.0	8.1	3.0	.4	.0	.2	.1
1200	10.4	7.9	2.4	.0	.0	.0	.1	20.7	10.0	.5	.2	.0	.3	.0
1800	10.0	8.7	2.6	.0	.0	.0	.0	21.1	9.9	.8	.5	.0	.1	.0
TOT PCT	10.8	8.6	2.6	.0	.0	.0	*	21.8	9.4	1.8	.3	.0	.2	*
TOT OBS:	7839													67.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.2	.9	.3	*	.0	.0		1.5	7.9	1.2	.9	1.2	1.6	2.0	1.3	1.7	1.3
NE	.1	.4	.1	*	.0	.0		.6	7.7	.4	.5	.5	.9	1.0	.5	.8	.3
E	*	.2	.1	.0	*	.0		.4	10.5	.2	.0	.3	.4	.6	.0	.4	.3
SE	.1	.8	.5	*	.0	.0		1.4	9.7	1.9	2.8	1.4	1.2	1.4	.5	1.2	1.4
S	.6	8.0	8.7	.8	*	.0		18.1	11.7	18.1	15.4	17.7	15.9	18.4	20.5	19.6	17.3
SW	.9	20.6	23.1	1.8	*	.0		46.4	11.7	47.3	47.2	47.4	47.0	45.3	42.6	45.3	47.5
W	.6	12.2	10.6	.4	*	.0		24.1	11.0	24.1	26.6	24.2	25.0	23.5	25.5	23.6	24.7
NW	.4	3.8	2.3	.1	.0	.0		6.6	9.8	5.7	5.1	6.2	7.4	7.1	8.6	6.9	6.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.1	1.5	1.2	.7	.7	.5	.6	.8
TOT OBS	472	5877	5738	427	9	0	12573		11.2	2470	197	2475	1057	2577	204	2493	1050
TOT PCT	3.8	46.9	45.8	3.4	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.7	.8	.1	*	.0		1.5	7.9	1.2	1.3	2.0
NE	.3	.3	*	.0	.0		.6	7.7	.4	.6	.9
E	.1	.2	*	.0	.0		.4	10.5	.2	.3	.6
SE	.5	.8	.2	.0	.0		1.4	9.7	2.0	1.3	1.4
S	3.0	11.3	3.2	.1	.0		18.1	11.7	17.9	17.1	18.5
SW	6.5	31.9	7.8	.2	.0		46.4	11.7	47.3	47.3	45.1
W	4.4	16.3	3.3	.1	.0		24.1	11.0	24.3	24.4	23.7
NW	1.7	4.2	.4	*	.0		6.6	9.8	5.6	6.6	7.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	.9				.0		.9	.0	1.1	1.0	.7
TOT OBS	2241	8309	1802	61	0	12573	11.2	2667	3532	2781	3543
TOT PCT	18.1	66.3	15.1	.5	.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1834-1973

AUGUST

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.1	3.0	46.3	45.5	4.1	.1	.0	11.3	100.0	2667
0600	1.0	2.7	48.7	44.0	3.4	.1	.0	11.1	100.0	3532
1200	.7	3.2	46.7	40.6	2.8	*	.0	11.1	100.0	2781
1800	.6	2.9	45.9	47.2	3.4	.1	.0	11.3	100.0	3543
TOT	107	365	5877	5738	427	9	0	11.2		12523
PCT	.9	2.9	46.9	45.8	3.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION					MEAN
WIND DIR	0-2	3-4	5-7	8 & 10	CLOUD COVER
				OBSCD	TOTAL OBS
N	.2	.2	.6	.8	6.3
NE	*	.1	.2	.2	6.6
E	.0	*	.2	.2	6.9
SE	.1	.1	.6	.7	6.6
S	1.2	2.2	7.7	8.4	6.4
SW	2.5	4.5	17.4	20.1	6.5
W	1.5	2.4	9.2	10.9	6.4
NW	.5	.9	2.6	2.8	6.3
VAR	.0	.0	.0	.0	.0
CALM	.1	.3	.4	.3	5.6
TOT OBS	360	635	2318	2656	5969
TOT PCT	6.0	10.6	38.8	44.5	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1799	3499	4999	6499	7999		ANY HGT	OBS
*	.0	*	.3	.5	.2	.1	.0	*	.1	.7	
.0	*	*	.1	.1	.1	*	*	.0	.0	.2	
.0	*	*	.1	.1	.1	.0	*	.0	.0	.1	
.0	.0	.1	.3	.3	.2	.1	*	*	*	.5	
.1	.1	.6	2.5	4.8	2.7	.9	.2	.1	.2	7.3	
.3	.3	1.4	6.0	10.2	5.4	2.1	.6	.1	.2	17.9	
.2	.1	.8	3.6	5.5	2.9	1.2	.3	.1	.1	9.2	
.1	.0	.2	.7	1.5	.8	.2	*	*	.1	3.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.0	.1	.2	.1	.1	.0	.0	*	.6	
41	34	190	814	1385	744	267	75	18	40	2361	5969
.7	.6	3.2	13.6	23.2	12.5	4.5	1.3	.3	.7	39.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.7	2.1	2.3	2.3	2.3	2.3	2.3	2.3
* OR >3500	4.8	6.1	6.6	6.7	6.7	6.7	6.7	6.7
* OR >2000	13.6	17.8	18.9	19.1	19.1	19.1	19.1	19.1
* OR >1000	29.9	39.4	41.7	42.0	42.1	42.1	42.1	42.1
* OR >600	37.8	41.2	44.8	45.5	45.6	45.7	45.7	45.7
* OR >300	39.2	53.8	57.8	58.6	58.7	58.9	58.9	58.9
* OR >150	39.3	54.2	58.2	59.1	59.3	59.4	59.5	59.5
* OR >0	39.5	54.5	58.8	59.7	60.0	60.1	60.1	60.2
TOTAL	2408	3325	3585	3644	3657	3666	3668	3671

TOTAL NUMBER OF OBS: 6099

PCT FREQ NH <5/8: 39.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
2.5	4.7	9.5	11.2	11.2	8.7	10.7	10.6	30.5	.6	6543

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.0	.0	.0	.0	.1	.1	.1	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	.1	.1	.1	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	*	.1	.1	.1	*	.0	*	.3	
	NO PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	TOT %	.0	.0	.0	*	.1	.2	.1	*	.0	*	.4	
1<2	PCP	*	.0	.0	.0	.1	.4	.2	*	.0	*	.7	
	NO PCP	.0	.0	*	*	.1	.1	*	.0	.0	.0	.2	
	TOT %	*	.0	*	*	.1	.4	.2	*	.0	*	.9	
2<5	PCP	*	*	*	.1	.6	1.6	.8	.2	.0	.0	3.3	
	NO PCP	*	*	.0	*	.3	.6	.3	.1	.0	.0	1.3	
	TOT %	*	*	*	.1	.8	2.1	1.1	.3	.0	.0	4.5	
5<10	PCP	.1	*	*	.2	2.1	5.0	2.8	.6	.0	*	10.9	
	NO PCP	.2	.1	.1	.3	3.7	7.5	3.6	.9	.0	.1	16.5	
	TOT %	.3	.1	.2	.5	5.8	12.4	6.4	1.5	.0	.1	27.4	
10+	PCP	.1	*	*	.1	1.1	2.8	1.7	.4	.0	*	6.2	
	NO PCP	1.2	.4	.2	.9	11.9	26.7	14.2	4.2	.0	.7	60.4	
	TOT %	1.3	.4	.2	1.0	13.0	27.4	15.9	4.6	.0	.7	66.6	
TOT OBS													7629
TOT PCT		1.7	.5	.4	1.6	19.8	44.7	23.9	6.5	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	.1	.1	.1	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	.1	*	.0	.0	.1	
	11-21	.0	.0	.0	*	*	.1	*	*	.0	.0	.2	
	22+	.0	.0	*	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	.1	.2	.1	*	.0	*	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	*	.0	*	*	.1	.2	.1	*	.0	.0	.5	
	11-21	*	*	*	*	.1	.3	.2	*	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	*	*	*	*	.2	.5	.3	.1	.0	*	1.2	
2<5	0-3	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	4-10	*	*	*	*	.3	.9	.4	.2	.0	.0	1.8	
	11-21	*	*	*	*	.5	1.6	.7	.2	.0	.0	3.0	
	22+	.0	.0	.0	.0	*	.2	.1	*	.0	.0	.3	
	TOT %	*	*	*	.1	.9	2.7	1.2	.4	.0	.0	5.3	
5<10	0-3	*	*	*	.1	.1	.2	.1	.1	.0	.1	.8	
	4-10	.2	.1	*	.2	1.9	4.6	2.6	.8	.0	.0	10.5	
	11-21	.1	*	*	.2	3.0	7.3	3.4	.7	.0	.0	14.8	
	22+	.0	.0	.0	*	.4	.6	.2	*	.0	.0	1.2	
	TOT %	.3	.1	.1	.5	5.4	12.7	6.3	1.6	.0	.1	27.3	
10+	0-3	.2	.1	*	*	.5	.6	.4	.3	.0	.7	2.9	
	4-10	.8	.4	.2	.5	6.1	14.6	8.6	2.8	.0	.0	34.1	
	11-21	.2	*	*	.3	5.6	13.8	6.4	1.3	.0	.0	27.6	
	22+	.0	.0	.0	*	.3	.6	.2	*	.0	.0	1.1	
	TOT %	1.2	.5	.2	.9	12.4	29.6	15.6	4.5	.0	.7	65.6	
TOT OBS													9496
TOT PCT		1.6	.7	.4	1.5	19.0	45.7	23.6	6.6	.0	.9	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0009 CUNAKRY
9.1N 15.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.7	.2	2.5	12.9	22.2	10.8	5.2	.9	.3	.6	50.4	43.6	1453
06009	1.3	.3	3.7	13.6	25.1	12.2	3.4	1.4	.3	.8	62.2	37.8	1447
12015	.4	.6	3.7	12.9	22.4	13.2	4.1	1.3	.3	.5	59.4	40.6	1718
18021	.4	1.0	2.7	14.2	20.9	12.3	4.0	1.4	.1	.9	58.4	41.6	1615
TOT	42	35	196	834	1408	759	269	77	18	44	3682	2551	6233
PCT	.7	.6	3.1	13.4	22.6	12.2	4.3	1.2	.3	.7	59.1	40.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	*	.4	.8	4.6	26.8	57.4	2194
06009	.3	.3	1.0	6.1	30.9	51.3	2573
12015	.3	.5	1.6	5.5	22.9	69.2	2321
18021	.2	.4	1.4	4.7	28.0	65.2	2607
TOT	23	39	118	509	2643	6363	9695
PCT	.2	.4	1.2	5.3	27.3	65.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND 5+		OBS
00003	.7	3.5	19.5	38.4	42.1	1415
06009	1.6	5.8	22.5	41.3	36.2	1418
12015	.4	5.2	21.2	39.4	39.4	1687
18021	.4	4.4	21.3	38.6	40.1	1579
TOT	45	288	1288	2403	2408	6099
PCT	.7	4.7	21.1	39.4	39.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	*	*	*	.0	.0	3	*
85/89	.0	.0	.0	.0	.2	.4	.2	*	51	.8
80/84	.0	.0	.0	.1	.4	9.7	17.0	2.4	1883	29.6
75/79	.0	.0	.0	.0	.2	6.2	36.5	23.5	4232	66.5
70/74	.0	.0	.0	.0	.0	.0	.2	2.8	190	3.0
65/69	.0	.0	.0	.0	.0	.0	.0	.1	4	.1
TOTAL	0	0	0	5	53	1040	3437	1828	6363	100.0
PCT	.0	.0	.0	.1	.8	16.3	54.0	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	*	*	.0	*	.0	.0
85/89	.1	*	.0	.0	.1	.2	.1	.0	*
80/84	.7	.2	.1	.5	5.6	11.8	7.2	3.1	.4
75/79	.6	.3	.2	1.1	13.2	32.2	15.3	3.0	.4
70/74	.1	.1	.1	.1	.6	1.3	.7	.1	.0
65/69	.0	.0	.0	*	*	.0	.0	.0	.0
TOTAL	1.7	.6	.4	1.7	19.6	45.5	23.4	6.4	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	86	82	81	78	75	73	67	78.0	2704
06009	87	82	80	78	74	73	67	77.7	3572
12015	94	86	84	79	75	73	68	79.3	2805
18021	90	84	82	79	75	73	68	78.6	3565
TOT	94	84	82	78	75	73	67	78.3	12646

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.1	11.5	57.8	30.6	87	1579
06009	.0	.0	.4	10.0	55.7	33.9	87	1609
12015	.0	.1	1.7	24.5	48.8	24.8	84	1665
18021	.0	.2	1.0	19.1	53.5	26.2	85	1680
TOT	0	5	54	1071	3521	1882	86	6533

AUGUST

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973AREA 0009 CONAKRY
9.1N 15.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/1A	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	*	.0	*	.0	*	3	.0	*
9/10	.0	.0	.0	.1	*	*	*	.0	12	*	.2
7/8	.0	.0	.0	*	*	.1	*	.0	13	.0	.2
6	.0	.0	.0	.1	*	.1	*	*	16	.0	.2
5	.0	.0	.0	.1	.4	.3	*	*	51	*	.9
4	.0	.0	*	.3	.8	.2	*	.0	94	.0	1.4
3	.0	.0	.0	.5	1.0	.1	.0	.0	112	.0	1.6
2	.0	.0	*	1.2	2.4	.1	.0	.0	261	*	3.7
1	.0	*	.1	4.1	3.2	*	.0	.0	515	.1	7.3
0	.0	*	.3	12.8	3.9	*	.0	.0	1184	.1	16.9
-1	.0	.0	.4	20.0	2.3	.0	.0	.0	1582	*	22.7
-2	.0	.0	1.6	15.0	.9	*	.0	.0	1215	*	17.4
-3	.0	.0	3.3	8.1	.3	.0	.0	.0	816	*	11.7
-4	.0	.1	3.3	3.5	.2	.0	.0	.0	495	.0	7.1
-5	.0	.1	2.5	2.0	.1	.0	.0	.0	327	.0	4.7
-6	*	*	1.2	.5	.0	.0	.0	.0	123	*	1.8
-7/-8	.0	.2	.9	.3	.0	.0	.0	.0	96	*	1.4
-9/-10	.0	*	.2	*	.0	.0	.0	.0	20	.0	.3
-11/-13	*	*	*	.0	.0	.0	.0	.0	8	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	6		967		1088		7		6956	21	6935
PCT	.1	.4	13.9	68.8	15.6	1.0	.1	*	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.1	.0	.0	.0	.4	*	.1	.0	.0	.0	.0	.1
1-2	.1	.9	.1	.0	.0	.0	1.0	*	.1	*	.0	.0	.0	.2
3-4	.0	.2	.1	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.4	.0	.0	.0	1.9	.1	.3	.1	.0	.0	.0	.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	*	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1
1-2	*	.1	.1	.0	.0	.0	.2	*	.4	.2	.0	.0	.0	.7
3-4	.0	*	.1	.0	.0	.0	.1	*	.1	.2	.0	.0	.0	.3
5-6	*	*	.0	.0	.0	.0	*	*	.1	.2	.1	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.2	.0	.0	.0	.4	.1	.7	.5	.1	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1973

AUGUST

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.6	.1	.0	.0	.0	.0	.9	.3	1.8	.2	.0	.0	.0	.0	2.2
1-2	.3	4.6	1.4	.0	.0	.0	6.3	.2	10.0	4.5	.0	.0	.0	.0	.0	15.3
3-4	.0	2.2	3.8	.2	.0	.0	6.2	.0	5.7	9.2	.1	.0	.0	.0	.0	15.1
5-6	*	.4	3.1	.3	.0	.0	3.4	*	1.4	6.9	.5	.0	.0	.0	.0	8.8
7		.1	1.2	.2	.0	.0	1.4		.1	2.4	.5	.0	.0	.0	.0	2.9
8-9	.0	.0	.2	.2	.0	.0	.4	.0	*	.3	.3	.0	.0	.0	.0	.6
10-11	.0	.0	.1	.1	.0	.0	.1	.0	*	.1	.1	.0	.0	.0	.0	.2
12	.0	.0	.1	.1	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	.0	*
13-16	.0	.0	*	*	.0	.0	*	.0	.0	.1	*	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.9	9.9	1.0	.0	.0	19.3	.5	19.6	23.5	1.6	*	.0	.0	.0	45.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.6	.1	.0	.0	.0	1.8	.2	.4	*	.0	.0	.0	.0	.0	.6	
1-2	.2	6.1	2.7	.0	.0	.0	8.9	.1	2.2	.5	.0	.0	.0	.0	.0	2.8	
3-4	.0	3.6	5.1	.1	.0	.0	8.9	.1	1.0	.7	.0	.0	.0	.0	.0	1.9	
5-6	*	.5	3.3	.1	.0	.0	3.8	.0	.1	.4	.0	.0	.0	.0	.0	.5	
7	.0	*	.6	.2	.0	.0	.9	.0	*	.1	*	.0	.0	.0	.0	.1	
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	11.8	11.8	.5	.0	.0	24.5	.3	3.8	1.9	*	.0	.0	.0	.0	6.0	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	5.1	.4	.0	.0	.0	7.8	
1-2	1.4	25.0	9.2	.0	.0	.0	35.6	
3-4	.1	12.9	19.1	.4	.0	.0	32.4	
5-6	.1	2.4	13.7	1.0	*	.0	17.2	
7	*	.2	4.2	.9	.0	.0	5.3	
8-9	.0	*	.6	.5	.0	.0	1.1	
10-11	.0	*	.2	.2	.0	.0	.4	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.1	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	45.6	47.4	3.1	*	.0	100.0	3953

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	11.1	15.7	7.4	2.9	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1964	3
6-7	*	1.1	6.8	10.3	5.3	1.7	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1322	5
8-9	*	.4	1.9	3.4	2.7	1.0	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	514	6
10-11	.0	.2	.7	.9	.6	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	5
12-13	.0	.0	.8	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	4
>13	.0	.0	.0	.3	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
INDET	1.6	4.8	5.3	4.3	2.2	.8	.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	967	4
TOTAL	133	881	1554	1352	708	236	97	23	23	0	1	0	0	0	0	0	0	0	0	5008	4
PCT	2.7	17.6	31.0	27.0	14.1	4.7	1.9	.5	.5	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.0	3.0	.4	.0	.0	.0	.0	10.4	5.5	6.9	.0	.0	.7	.0	77.9
NE	9.6	5.4	2.0	.0	.0	.0	.0	17.0	5.9	8.9	.0	.0	.0	.0	70.7
E	10.8	6.5	2.2	.0	.0	.0	.0	19.6	4.7	4.9	.0	.0	.0	.0	72.9
SE	5.6	4.7	1.5	.0	.0	.0	.0	11.5	4.5	5.2	.3	.0	.0	.0	78.5
S	5.4	5.8	1.7	.0	.0	.0	.0	12.7	7.6	3.0	.3	.0	.2	.0	76.4
SW	7.5	7.2	1.4	.0	.0	.0	*	16.4	8.2	2.0	.2	.0	.0	.0	73.4
W	5.1	7.0	1.7	.0	.0	.0	*	13.7	6.9	4.6	.3	.0	.2	.0	74.6
NW	4.6	5.2	1.7	.0	.0	.0	.3	11.8	4.4	7.3	.3	.0	.5	.0	76.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	2.1	.0	.0	.0	.0	.0	3.1	1.4	10.5	.0	.0	1.0	.0	84.0
TOT PCT	6.1	6.1	1.6	.0	.0	.0	*	13.8	6.7	4.2	.2	.0	.2	.0	75.3
TOT OBS:	6612														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.2	5.5	1.5	.0	.0	.0	.1	12.1	6.6	9.4	.2	.0	.2	.0	72.0
06009	8.5	7.0	2.2	.0	.0	.0	.0	17.5	6.4	7.1	.4	.0	.2	.0	69.4
12015	5.9	5.6	1.4	.0	.0	.0	.1	12.9	7.8	.4	.0	.0	.1	.0	78.9
18021	4.9	5.9	1.6	.0	.0	.0	.1	12.4	5.4	1.5	.4	.0	.4	.0	80.2
TOT PCT	6.1	6.0	1.7	.0	.0	.0	*	13.7	6.5	4.5	.2	.0	.2	.0	75.2
TOT OBS:	7167														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21	
N	.9	2.7	.5	*	.0	.0		4.2	6.9	3.7	1.3	3.5	4.3	5.3	4.9	4.3	3.9		
NE	.6	1.8	.3	.1	*	.0		2.8	7.5	2.3	1.6	2.8	3.4	4.1	5.7	2.1	1.8		
E	.4	1.8	.5	*	*	.0		2.8	7.6	1.4	.9	2.5	4.4	4.2	4.7	2.8	2.3		
SE	1.0	3.2	.9	*	*	.0		5.1	7.2	4.2	4.1	4.4	6.3	6.3	4.9	5.3	5.0		
S	2.2	10.7	5.1	.4	.0	.0		18.4	8.8	20.6	24.4	17.1	14.6	18.9	18.0	18.4	17.6		
SW	2.4	19.1	10.4	.6	*	.0		32.5	9.5	33.7	36.2	32.8	31.3	29.8	31.7	33.2	35.0		
W	2.1	14.0	4.0	.2	*	.0		20.2	8.1	20.1	20.0	21.7	21.8	17.9	19.0	20.0	22.2		
NW	1.3	6.5	1.6	*	*	.0		9.4	7.5	8.2	6.0	9.7	10.5	9.7	9.8	10.4	8.3		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.5							4.5	.0	5.8	5.7	5.6	3.4	3.8	1.3	3.6	3.8		
TOT OBS	1738	6733	2625	158	5	0	11259		8.1		2272	159	2224	963	2333	153	2187	968	
TOT PCT	15.4	59.8	23.3	1.4	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.3	1.8	.1	*	.0		4.2	6.9	3.5	3.7	5.3	4.2
NE	1.5	1.2	.1	*	.0		2.8	7.5	2.3	3.0	4.2	2.0
E	1.5	1.2	.2	*	.0		2.8	7.6	1.3	3.1	4.2	2.6
SE	2.7	2.2	.2	*	.0		5.1	7.2	4.2	4.9	6.2	5.2
S	6.9	9.9	1.5	*	.0		18.4	8.8	20.9	16.3	18.8	18.2
SW	10.5	18.8	3.1	.1	.0		32.5	9.5	33.9	32.3	29.9	33.7
W	8.4	10.8	1.0	*	*		20.2	8.1	20.1	21.7	17.9	20.7
NW	4.5	4.6	.3	*	*		9.4	7.5	8.1	9.9	9.7	9.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	5.8	5.0	3.7	3.7
TOT OBS	4809	5696	719	34	1	11259		8.1	2431	3187	2486	3155
TOT PCT	42.7	50.6	6.4	.3	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

SEPTEMBER

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.8	9.7	59.2	23.7	1.6	*	.0	.0	8.2	100.0	2431
06009	5.0	10.9	61.7	21.1	1.3	.1	.0	.0	8.0	100.0	3187
12015	3.7	11.8	59.6	23.9	1.0	.0	.0	.0	8.1	100.0	2486
18021	3.7	11.3	58.6	24.0	1.6	*	.0	.0	8.3	100.0	3155
TOT	506	1232	6733	2626	158	5	0	8.1			11259
PCT	4.5	10.9	59.8	23.3	1.4	*	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.7	1.5	1.0	5.4	
NE	.3	.4	1.1	1.1	5.9	
E	.2	.4	1.2	.8	6.0	
SE	.7	.9	2.2	1.3	5.4	
S	2.9	4.0	8.1	6.3	5.5	
SW	2.9	4.9	13.4	10.8	5.9	
W	2.3	3.3	8.2	5.2	5.6	
NW	1.1	1.9	3.5	2.3	5.4	
VAR	.0	.0	.0	.0	.0	
CALM	1.5	1.0	1.4	.8	4.2	
TOT OBS	651	930	2151	1560	5292	5.6
TOT PCT	12.3	17.6	40.6	29.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT), NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
*	*	.1	.2	.8	.3	.2	.0	.0	.1	.1	2.1	
*	*	.3	.8	.2	.0	.1	.0	.1	.1	.1	1.5	
*	.0	.1	.3	.5	.3	.1	*	.1	.1	.1	1.3	
.0	.0	.1	.4	.8	.6	.2	*	*	.1	.1	2.8	
.1	*	.5	1.9	3.8	2.1	.9	.3	.1	.2	.1	11.3	
.1	.1	.7	3.8	5.8	3.5	1.0	.3	.1	.4	.4	16.0	
.1	.0	.4	1.6	2.9	2.1	.7	.2	*	.3	.3	10.6	
.0	.0	.1	.6	1.4	.7	.3	.1	.0	.1	.1	5.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.3	.5	.3	.1	.1	.1	.0	.1	3.1	
18	7	106	500	925	526	185	59	16	71	2879	5292	
.3	.1	2.0	9.4	17.5	9.9	3.5	1.1	.3	1.3	2.4	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	
= OR >6500	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7	
= OR >5000	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
= OR >3500	5.1	6.1	6.2	6.2	6.2	6.2	6.2	6.2	
= OR >2000	12.1	15.2	15.9	16.0	16.0	16.0	16.0	16.0	
= OR >1000	25.7	31.6	33.2	33.4	33.4	33.4	33.4	33.4	
= OR >600	31.6	40.1	42.3	42.6	42.7	42.7	42.7	42.7	
= OR >300	32.7	41.7	44.2	44.5	44.7	44.7	44.8	44.8	
= OR >150	32.7	41.8	44.3	44.6	44.8	44.8	44.9	44.9	
= OR >0	32.8	42.0	44.5	45.0	45.2	45.2	45.2	45.2	
TOTAL	1867	2392	2539	2565	2574	2576	2579	2579	

TOTAL NUMBER OF OBS: 5700

PCT FREQ NH <5/8: 54.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.3	10.1	13.9	14.1	11.9	8.7	9.4	8.6	18.7	6013

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

SEPTEMBER

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	*	.0	.0	*	*	.1	*	*	.0	.0	.2		
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*		
	TOT %	*	.0	.0	*	*	.1	*	*	.0	.0	.2		
1/2<1	PCP	*	*	.0	*	*	*	*	*	.0	.0	.2		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
	TOT %	*	*	.0	*	*	*	*	*	.0	.0	.2		
1<2	PCP	*	*	*	.0	.1	.2	*	*	.0	.0	.4		
	NO PCP	.0	.0	.0	*	*	.1	*	*	.0	*	.2		
	TOT %	*	*	*	*	.1	.3	.1	.1	.0	*	.6		
2<5	PCP	*	*	.1	.1	.5	.6	.4	.1	.0	*	1.9		
	NO PCP	.1	*	.0	*	.2	.2	.1	.1	.0	*	.8		
	TCT %	.1	.1	.1	.1	.8	.8	.5	.3	.0	*	2.7		
5<10	PCP	.2	.3	.2	.3	1.0	2.7	1.3	.5	.0	*	6.5		
	NO PCP	.4	.3	.4	.8	2.6	4.8	2.7	1.2	.0	.5	13.7		
	TOT %	.6	.7	.6	1.1	3.7	7.4	4.0	1.6	.0	.5	20.2		
10+	PCP	.1	.1	.3	.2	1.0	1.7	.9	.4	.0	.1	4.7		
	NO PCP	2.8	2.1	2.0	3.7	15.1	21.6	13.6	6.8	.0	3.7	71.4		
	TOT %	2.9	2.2	2.3	3.9	16.1	23.3	14.5	7.2	.0	3.8	76.1		
TOT OBS														6611
TOT PCT														
		3.7	3.0	3.0	5.2	20.6	32.0	19.0	9.2	.0	4.3	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*		
	4-10	.0	.0	*	*	*	*	*	*	.0	.0	.1		
	11-21	.0	.0	.0	.0	*	.1	*	.0	.0	.0	.1		
	22+	.0	.0	*	*	.0	*	.0	*	.0	.0	*		
	TOT %	*	.0	*	*	*	.1	*	*	.0	.0	.2		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
	4-10	*	.0	*	*	*	*	*	*	.0	.0	.1		
	11-21	.0	*	.0	*	*	*	*	*	.0	.0	.1		
	22+	.0	.0	.0	.0	.0	*	.0	*	.0	.0	*		
	TOT %	*	*	.0	*	*	*	*	*	.0	.0	.2		
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	*		
	4-10	.0	*	*	*	.1	.1	.1	*	.0	.0	.4		
	11-21	*	*	*	*	*	.1	.1	*	.0	.0	.4		
	22+	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1		
	TOT %	*	*	*	*	.1	.3	.1	.1	.0	*	.8		
2<5	0-3	*	*	*	*	*	.1	*	.1	.0	.1	.3		
	4-10	.1	*	*	.1	.4	.6	.4	.2	.0	.0	1.7		
	11-21	*	*	*	*	.3	.5	.2	.1	.0	.0	1.2		
	22+	.0	*	.0	*	.1	*	*	.0	.0	.0	.2		
	TOT %	.1	.1	.1	.2	.7	1.1	.6	.3	.0	.1	3.4		
5<10	0-3	.2	.1	.1	.2	.4	.5	.4	.3	.0	.5	2.6		
	4-10	.4	.3	.3	.6	1.5	3.6	2.6	1.0	.0	.0	10.3		
	11-21	.1	.2	.1	.2	1.5	3.4	1.1	.3	.0	.0	6.8		
	22+	*	*	*	*	.1	.2	.1	*	.0	.0	.5		
	TOT %	.7	.6	.6	1.0	3.5	7.6	4.2	1.6	.0	.5	20.3		
10+	0-3	.7	.5	.3	.7	1.8	1.8	1.6	1.0	.0	4.0	12.2		
	4-10	2.0	1.5	1.5	2.4	9.2	14.7	10.6	5.1	.0	.0	47.1		
	11-21	.4	.1	.4	.7	3.8	6.4	2.5	1.1	.0	.0	15.3		
	22+	*	*	*	*	.2	.2	*	.0	.0	.0	.5		
	TOT %	3.1	2.1	2.2	3.8	14.9	23.1	14.8	7.1	.0	4.0	75.1		
TOT OBS														8544
TOT PCT														
		4.0	2.8	2.9	5.1	19.3	32.3	19.8	9.2	.0	4.6	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.5	8.9	17.5	8.2	3.0	.6	.2	1.1	41.3	58.7	1386
06009	.6	.4	2.7	10.5	20.7	11.3	3.7	1.4	.1	1.3	52.7	47.3	1358
12015	.3	.1	1.9	8.8	16.1	9.7	3.2	1.4	.4	1.4	43.3	56.7	1585
18021	.2	.0	1.9	8.2	14.2	9.2	3.4	.9	.4	1.5	39.8	60.2	1517
TOT PCT	21 .4	7 .1	116 2.0	529 9.0	994 17.0	560 9.6	194 3.3	63 1.1	18 .3	77 1.3	2579 44.1	3267 55.9	5846 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.1	.4	3.1	20.1	76.2	2097
06009	.3	.2	1.0	3.8	24.4	70.3	2421
12015	.2	.3	.8	3.5	17.7	77.5	2172
18021	.2	.2	1.0	2.7	19.0	77.0	2409
TOT PCT	18 .2	17 .2	73 .8	298 3.3	1855 20.4	4938 75.2	9099 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	2.1	12.6	30.5	56.9	1340
06009	.6	3.9	17.0	37.4	45.6	1322
12015	.3	2.5	13.4	30.9	55.7	1555
18021	.2	2.4	12.0	28.8	59.2	1483
TOT PCT	22 .4	154 2.7	780 13.7	1811 31.8	3109 54.5	5700 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	*	.0	.0	5	.1
85/89	.0	.0	.0	.1	.5	1.2	.3	*	118	2.1
80/84	.0	.0	.0	*	.6	15.4	22.4	3.4	2393	41.8
75/79	.0	.0	.0	.0	.3	4.6	32.1	17.4	3107	54.3
70/74	.0	.0	.0	.0	.0	.0	.2	1.6	101	1.8
TOTAL	0	0	0	5	83	1210	3146	1280	5724	100.0
PCT	.0	.0	.0	.1	1.5	21.1	55.0	22.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	*	*	*	*	*	.0	.0	.0	.0
85	.1	.1	.1	.1	.3	.3	.4	.4	.0	.2
80	2.1	1.3	1.3	2.5	7.8	11.3	8.2	4.9	.0	2.4
75	1.5	1.5	1.3	2.6	12.2	20.0	9.8	3.4	.0	2.0
70	.1	.1	.1	.2	.3	.6	.2	.1	.0	.0
TOTAL	3.6	2.9	2.9	5.4	20.7	32.3	18.7	8.8	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	82	81	79	76	74	70	78.6	2567
06009	87	83	81	78	75	73	70	78.3	3350
12015	91	88	85	80	75	73	70	80.3	2582
18021	93	86	84	80	75	73	70	79.6	3282
TOT	93	86	83	79	75	73	70	79.2	11761

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.9	12.0	63.4	23.7	86	1522
06009	.0	.1	.5	9.0	60.6	29.8	87	1517
12015	.0	.1	2.4	34.8	45.6	17.1	82	1570
18021	.0	.2	1.8	28.4	51.9	17.7	83	1589
TOT	0	6	88	1317	3425	1362	84	6198

SEPTEMBER

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	*	*	*	.0	*	6	.0	.1
9/10	.0	.0	*	*	*	.1	.0	13	*	.2
7/8	.0	.0	*	.1	.2	.1	.0	27	.0	.4
6	.0	.0	.1	.1	.1	*	.0	21	.0	.3
5	.0	.0	*	.3	.4	*	.0	49	*	.7
4	.0	*	.2	.9	.5	.0	.0	97	*	1.5
3	.0	.0	.3	1.7	.5	.0	.0	162	*	2.5
2	.0	*	1.1	3.6	.4	.0	.0	331	*	5.1
1	.0	.1	3.8	4.9	.2	.0	.0	576	.0	9.0
0	.0	.1	10.8	6.6	*	.0	.0	1126	*	17.5
-1	.0	.5	18.3	4.4	*	.0	.0	1491	.1	23.1
-2	.0	1.2	13.1	2.3	*	.0	.0	1066	*	16.5
-3	.0	1.9	7.6	.7	.0	.0	.0	653	*	10.1
-4	.0	2.2	3.5	.4	*	.0	.0	395	*	6.1
-5	*	1.9	1.6	.1	.0	.0	.0	232	*	3.6
-6	*	.6	.0	.0	.0	.0	.0	80	.0	1.2
-7/-8	.1	.7	.4	*	.0	.0	.0	79	.0	1.2
-9/-10	*	.1	.1	.0	.0	.0	.0	19	.0	.3
-11/-13	*	*	*	.0	.0	.0	.0	7	.0	.1
TOTAL	14	602	1678	161	16	1	*	6431	.3	99.7
PCT	.2	9.4	61.6	26.1	2.5	.2	*	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9	.2	.5	.0	.0	.0	.0	.7
1-2	.3	1.0	.2	.0	.0	.0	1.5	.2	1.3	.1	.0	.0	.0	1.6
3-4	*	.8	.2	.0	.0	.0	1.1	.1	.4	.2	.0	.0	.0	.8
5-6	.0	.1	.1	.0	.0	.0	.2	.0	*	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.4	.7	*	.0	.0	3.8	.5	2.2	.5	*	.0	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.1	.0	.0	.0	.6	.3	.6	*	.0	.0	.0	.9
1-2	.2	1.2	.2	.0	.0	.0	1.6	.3	1.7	.2	.0	.0	.0	2.2
3-4	.1	.2	.3	.0	.0	.0	.5	*	.6	.4	.0	.0	.0	1.1
5-6	.0	.1	.1	.0	.0	.0	.1	.0	.1	.4	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.0	.0	*	.0	.0	*	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.7	.7	*	.0	.0	2.8	.6	3.1	1.2	*	.0	.0	4.9

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0009 CONAKRY
9.1N 15.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.4	.1	.0	.0	.0	2.3	.8	2.7	.2	.0	.0	.0	3.6
1-2	.9	7.4	1.6	.0	.0	.0	9.9	.9	10.7	2.6	.0	.0	.0	14.2
3-4	.1	2.6	2.7	.1	.0	.0	5.5	.1	3.6	5.0	.1	.0	.0	8.7
5-6	.0	.5	2.3	.1	.0	.0	2.9	.0	.6	3.2	.2	.0	.0	4.0
7	.0	.0	.5	.1	.0	.0	.7	.0	.1	.5	.2	.0	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	12.0	7.5	.4	.0	.0	21.6	1.7	17.7	11.6	.5	.0	.0	31.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	2.2	.1	.0	.0	.0	3.3	.4	1.0	.1	.0	.0	.0	1.5	
1-2	.7	7.7	1.0	.0	.0	.0	9.4	.5	3.6	.4	.0	.0	.0	4.5	
3-4	.1	2.0	1.6	.0	.0	.0	3.6	.1	1.0	.8	.0	.0	.0	2.0	
5-6	.0	.4	.9	.0	.0	.0	1.4	.0	.1	.2	.0	.0	.0	.4	
7	.0	.0	.3	.1	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	12.4	4.0	.1	.0	.0	18.3	1.1	5.7	1.7	.0	.0	.0	8.5	94.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.7	9.5	.6	.0	.0	.0	21.9	
1-2	4.5	33.6	6.0	.0	.0	.0	44.1	
3-4	.6	10.8	10.6	.1	.0	.0	22.1	
5-6	.0	1.7	7.1	.3	.0	.0	9.1	
7	.0	.2	1.5	.4	.0	.0	2.1	
8-9	.0	.0	.3	.1	.0	.0	.5	
10-11	.0	.1	.0	.1	.0	.0	.2	
12	.0	.1	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.8	56.0	26.2	1.0	.0	.0	100.0	3679

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.0	13.6	13.0	5.5	1.7	.5	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1736	3
6-7	.0	2.2	8.1	8.5	2.9	1.2	.3	.5	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1096	5
8-9	.0	1.0	2.7	3.3	2.2	.9	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	493	5
10-11	.0	.7	.9	1.6	.6	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	199	5
12-13	.0	.0	1.5	.5	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	4
>13	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
INDET	5.0	5.5	4.7	3.4	1.2	.6	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	949	3
TOTAL	367	1071	1429	1084	416	169	46	73	7	1	1	0	0	0	0	0	0	0	0	0	4624	4
PCT	7.9	23.2	30.9	23.4	9.0	3.7	1.0	.7	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1855-1973

OCTOBER

TABLE 1

AREA 0009 CONAKRY
9.2N 15.7W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	1.2	.3	.0	.0	.0	.1	3.0	2.5	11.3	.4	.0	1.3	.0	82.0
NE	3.9	2.4	.8	.0	.0	.0	.0	7.0	2.1	10.5	.8	.0	.1	*	80.2
E	5.5	2.6	.7	.0	.0	.0	.0	8.7	2.2	7.7	.3	.0	.7	.1	80.9
SE	6.1	4.1	.7	.0	.0	.0	.0	10.6	3.7	6.2	.3	.0	.1	.0	77.6
S	6.0	6.0	.7	.0	.0	.0	.1	12.6	4.9	8.4	.4	.0	.1	.0	74.5
SW	6.4	5.2	.8	.0	.0	.0	.0	12.3	5.0	9.4	.0	.0	.1	.0	74.0
W	3.8	2.8	1.2	.0	.0	.0	.0	7.0	4.6	8.6	.4	.0	.5	.0	78.5
NW	2.4	1.9	1.0	.0	.0	.0	.1	5.4	2.2	11.6	.6	.0	.5	.0	79.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.8	.0	.0	.0	.0	.0	1.7	.9	12.4	.1	.0	.3	.0	84.7
TOT PCT	4.2	3.1	.7	.0	.0	.0	*	7.9	3.2	9.8	.3	.0	.4	*	78.9
TOT OBS:	6623														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.1	3.1	.8	.0	.0	.0	.1	7.1	2.9	22.6	.3	.0	.5	.0	67.7
0600	6.0	3.5	.9	.0	.0	.0	*	10.4	3.5	15.9	.6	.0	.3	*	70.6
1200	4.6	2.7	.7	.0	.0	.0	.0	8.0	3.7	.6	.2	.0	.4	.0	87.3
1800	2.3	2.8	.4	.0	.0	.0	.0	5.5	2.0	3.8	.5	.0	.5	.0	87.9
TOT PCT	4.0	3.1	.7	.0	.0	.0	*	7.7	3.0	10.5	.4	.0	.4	*	78.6
TOT OBS:	7624														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.6	6.3	.7	*	*	.0		9.7	5.7	9.8	9.1	9.2	10.8	10.7	7.1	10.2	8.1	
NE	1.7	4.7	1.2	*	*	.0		7.6	6.8	6.0	4.5	8.3	8.4	10.0	5.2	7.1	5.2	
E	1.9	5.4	1.2	.1	*	.0		8.7	6.9	5.9	5.8	8.6	12.7	12.3	12.2	7.3	5.6	
SE	2.5	6.5	1.4	.1	*	.0		10.5	6.7	9.3	6.1	8.9	14.1	11.8	13.8	10.3	10.2	
S	3.4	8.4	1.8	*	.0	.0		13.6	6.5	14.7	13.6	13.2	11.5	12.7	15.8	14.3	14.3	
SW	3.1	10.0	1.8	.1	*	.0		14.9	6.7	16.6	22.4	14.5	11.8	11.7	14.1	16.0	19.6	
W	3.0	6.9	.8	.1	.0	.0		10.8	5.8	12.0	11.1	11.0	8.6	8.8	10.4	11.3	13.2	
NW	2.9	6.9	.7	*	.0	.0		10.6	5.6	10.1	9.6	10.5	12.6	10.5	14.4	10.3	10.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	13.7							13.7	.0	16.6	17.9	15.8	9.5	11.3	7.0	13.3	13.4	
TOT OBS	3843	6098	1066	52	7	0	11066		5.5	2172	151	2128	954	2322	158	2238	943	
TOT PCT	34.7	55.1	9.6	.5	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	18
N	6.7	2.9	.1	*	.0		9.7	5.7	8.8	9.7	10.5	9.6
NE	4.4	2.9	.3	*	.0		7.6	6.8	5.9	8.4	9.7	6.5
E	5.0	3.3	.3	*	.0		8.7	6.9	5.9	9.8	12.3	6.8
SE	6.1	4.0	.3	*	.0		10.5	6.7	9.1	10.5	12.0	10.3
S	8.3	4.9	.4	.0	.0		13.6	6.5	14.7	12.6	12.9	14.3
SW	8.6	5.9	.4	*	.0		14.9	6.7	17.0	13.6	11.9	17.0
W	7.5	3.1	.1	*	.0		10.8	5.8	11.9	10.3	8.9	11.9
NW	7.4	3.1	.1	*	.0		10.6	5.6	10.1	11.1	10.8	10.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	13.7				.0		13.7	.0	16.7	13.9	11.0	13.3
TOT OBS	7503	3329	218	16	0	11066		5.5	2323	3082	2480	3181
TOT PCT	67.8	30.1	2.0	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1855-1973

OCTOBER

AREA 0009 CONAKRY
9.2N 15.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	16.7	19.0	54.7	9.1	.4	.1	.0	5.3	100.0	2323	
0600	13.9	20.2	55.4	9.9	.5	.1	.0	5.5	100.0	3082	
1200	11.0	22.0	56.0	10.4	.5	*	.0	5.7	100.0	2480	
1800	13.3	22.7	54.4	9.1	.4	*	.0	5.3	100.0	3181	
TOT	1511	2332	6098	1066	52	7	0	5.5		11066	
PCT	13.7	21.1	55.1	9.6	.5	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	2.3	3.0	1.2	10.2	2.9
NE	2.3	1.8	3.1	1.3	8.5	2.5
E	1.7	1.8	3.4	1.8	8.7	2.0
SE	1.5	1.8	3.3	1.8	8.4	2.1
S	2.2	2.8	4.9	3.5	13.4	3.2
SW	2.3	3.3	5.9	3.4	14.9	3.2
W	2.3	2.5	3.9	1.8	10.5	2.7
NW	3.6	2.7	3.3	1.3	10.9	2.9
VAR	.0	.0	.0	.0	.0	.0
CALM	6.0	3.9	5.3	1.3	16.5	3.3
TOT OBS	1332	1192	1771	904	5199	4.5
TOT PCT	25.6	22.9	34.1	17.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
.0	*	*	*	.2	.9	.5	.1	.1	.1	.3	8.1	
.0	*	*	.1	.5	.8	.4	.2	*	.1	.1	6.2	
*	*	*	.1	.5	1.0	.6	.3	.1	.2	.2	5.7	
*	*	*	.1	.4	1.1	.6	.2	.1	*	.1	5.6	
.1	*	*	.2	1.1	1.8	1.2	.4	.1	.1	.2	8.2	
*	*	*	.2	1.5	2.1	1.3	.5	.1	.1	.1	8.9	
.1	*	*	.1	.5	1.1	.7	.1	.1	.1	.1	7.6	
.0	.0	.1	.4	.8	.6	.2	.1	*	*	*	8.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	*	.4	.9	.5	.2	*	*	.0	.1	12.4	
14	11	48	288	547	331	114	40	34	71	3701	5199	
.3	.2	.9	5.5	10.5	6.4	2.2	.8	.7	1.4	71.2	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50 YD	> 0
* OR > 6500	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR > 5000	2.3	2.7	2.8	2.8	2.8	2.8	2.8	2.8
* OR > 3500	4.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
* OR > 2000	9.2	10.9	11.0	11.1	11.1	11.1	11.1	11.1
* OR > 1000	17.3	20.6	21.1	21.2	21.3	21.3	21.3	21.3
* OR > 600	21.3	25.6	26.4	26.6	26.7	26.8	26.8	26.8
* OR > 300	21.7	26.4	27.3	27.5	27.7	27.7	27.7	27.7
* OR > 150	21.8	26.5	27.5	27.7	27.8	27.9	27.9	27.9
* OR > 0	21.9	26.7	27.7	27.9	28.0	28.1	28.2	28.2
TOTAL	1322	1613	1673	1687	1695	1699	1704	1704

TOTAL NUMBER OF OBS: 6047

PCT FREQ NH < 5/8: 71.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.7	15.8	18.8	15.3	10.7	6.0	6.8	5.3	10.3	.2	6415

PERIOD: (PRIMARY) 1924-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.1	*	.0	*	.0	.0	.1	
1/2<1	PCP	.0	*	.0	*	.0	*	*	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	.0	*	*	.0	.0	.2	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	PCP	*	*	.1	*	.0	.0	*	*	.0	*	.2	
	NO PCP	*	.0	*	*	*	.0	*	*	.0	*	.1	
	TOT %	*	*	.1	.1	*	.0	.1	*	.0	*	.3	
2<5	PCP	.1	.1	.1	.1	.2	.1	.1	*	.0	*	.9	
	NO PCP	.1	*	*	.1	*	.1	*	.1	.0	*	.5	
	TOT %	.1	.1	.1	.2	.3	.3	.1	.1	.0	.1	1.3	
5<10	PCP	.2	.2	.4	.5	.8	1.0	.4	.2	.0	.1	3.8	
	NO PCP	1.5	1.2	1.6	1.6	2.0	2.1	2.1	1.4	.0	1.4	14.9	
	TOT %	1.6	1.4	1.9	2.0	2.8	3.1	2.5	1.7	.0	1.5	18.7	
10+	PCP	.1	.3	.2	.3	.7	.6	.3	.0	.1	.1	2.9	
	NO PCP	8.2	6.6	6.6	6.2	9.8	10.8	8.0	8.6	.0	11.5	76.4	
	TOT %	8.4	6.9	6.9	6.5	10.5	11.5	8.3	8.8	.0	11.6	79.3	
TOT OBS													
TOT PCT		10.2	8.5	9.0	8.9	13.7	14.8	11.1	10.7	.0	13.2	100.0	6619

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.0	*	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	*	*	*	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	*	.1	*	.0	.0	.0	.0	.1	
1/2<1	0-3	*	*	*	.0	*	.0	*	*	.0	.0	.1	
	4-10	.0	*	*	*	*	*	.0	*	.0	.0	.1	
	11-21	.0	*	*	*	.0	*	.0	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
1<2	0-3	*	*	.0	*	*	.0	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	*	.1	*	.0	.2	.2	
	11-21	.0	*	*	*	*	.0	.0	*	.0	.0	.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	*	.1	*	.0	*	.5	
2<5	0-3	*	.0	*	*	*	.1	*	*	.0	.2	.4	
	4-10	.1	.1	.1	.2	.1	.2	.2	.1	.0	.0	1.1	
	11-21	*	*	*	.1	.1	*	*	*	.0	.0	.4	
	22+	*	*	*	*	.0	*	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.2	.3	.3	.3	.2	.2	.0	.2	2.0	
5<10	0-3	.4	.2	.3	.5	.6	.5	.5	.5	.0	1.6	5.2	
	4-10	1.0	.8	1.1	1.1	1.6	1.9	1.4	1.0	.0	.0	9.9	
	11-21	.1	.2	.4	.3	.5	.6	.3	.2	.0	.0	2.5	
	22+	.0	*	*	*	.0	*	*	.0	.0	.0	.1	
	TOT %	1.5	1.2	1.8	2.0	2.7	2.9	2.3	1.6	.0	1.6	17.7	
10+	0-3	2.1	1.7	1.6	1.8	2.7	2.5	2.4	2.3	.0	12.3	29.5	
	4-10	5.3	4.1	4.3	4.6	6.5	7.6	5.1	5.8	.0	.0	43.4	
	11-21	.0	.8	.7	.8	1.2	1.2	.4	.5	.0	.0	6.3	
	22+	*	*	*	*	*	*	*	.0	.0	.0	.2	
	TOT %	8.0	6.6	6.9	7.3	10.4	11.3	8.0	8.6	.0	12.3	79.4	
TOT OBS													
TOT PCT		9.8	8.0	9.0	9.8	13.6	14.6	10.6	10.5	.0	14.1	100.0	8557

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.3	.1	.7	5.6	8.7	4.7	1.7	.8	.6	1.0	24.1	75.9	1507
06009	.7	.1	1.1	6.9	11.3	7.1	2.1	.6	.3	1.7	31.9	68.1	1491
12015	.1	.4	1.4	5.0	10.6	6.9	2.0	.8	.8	1.5	29.5	70.5	1662
18021	.0	.1	.4	3.7	8.7	5.2	2.4	.6	.8	1.4	23.3	76.7	1625
TOT	17	12	56	330	617	376	129	43	40	87	1707	4578	6265
PCT	.3	.2	.9	5.3	9.8	6.0	2.1	.7	.6	1.4	27.2	72.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
(GMT)							OBS
00003	.1	.3	.5	2.5	18.2	78.4	2239
06009	.3	.4	.6	2.0	21.9	74.8	2594
12015	.1	.3	.6	1.7	13.0	84.3	2287
18021	.1	.2	.2	1.5	17.3	80.7	2633
TOT	15	29	46	186	1730	7747	9753
PCT	.2	.3	.5	1.9	17.7	79.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	< 150 < 50 YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.3	1.2	8.1	17.4	74.5	1445
06009	.8	2.2	10.2	23.2	66.6	1438
12015	.1	2.2	8.2	22.4	69.4	1609
18021	.0	.7	5.3	19.4	75.3	1555
TOT	16	96	479	1245	4323	6047
PCT	.3	1.6	7.9	20.6	71.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	*	.0	18	.3
85/89	.0	.0	.0	.1	1.1	4.4	.0	.2	381	6.7
80/84	.0	.0	*	.1	1.7	28.9	31.2	4.6	3779	66.4
75/79	.0	.0	.0	.0	*	2.4	15.9	7.2	1451	25.5
70/74	.0	.0	.0	.0	.0	*	.1	.0	59	1.0
TOTAL	0	0	1	12	168	2043	2734	730	5688	100.0
PCT	.0	.0	*	.2	3.0	35.9	48.1	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	*	.1	.1	.0	*	*	*	*	.0	.1
85/89	1.3	.7	.5	.4	.7	.6	.7	1.0	.0	.9
80/84	8.0	5.7	6.0	5.8	7.3	8.1	7.1	8.0	.0	10.5
75/79	1.0	1.8	2.0	2.5	5.5	5.8	5.0	1.6	.0	2.3
70/74	.1	.1	.2	.1	.2	.2	.1	.1	.0	*
TOTAL	10.3	8.4	8.7	8.7	13.7	14.8	10.9	10.7	.0	13.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	90	83	82	80	77	74	70	80.1	2649
06009	88	84	82	80	76	73	71	79.6	3409
12015	93	89	87	82	77	74	71	82.1	2697
18021	92	88	85	82	77	75	70	81.4	3450
TOT	93	88	85	81	76	74	70	80.8	12205

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.1	.5	25.1	60.7	13.7	84	1635
06009	.0	.1	.9	21.1	60.0	17.8	84	1677
12015	.0	.4	6.6	49.7	32.8	10.4	79	1657
18021	.0	.2	4.4	46.7	39.2	9.5	80	1719
TOT	0	13	208	2391	3216	860	82	6688

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	*	.0	*	.0	3	.0	*
9/10	.0	.0	.0	.1	*	*	*	12	.0	.2
7/8	.0	.0	*	.1	.1	.2	.0	35	.0	.5
6	.0	*	*	.1	.2	*	.0	23	.0	.3
5	.0	.0	*	.2	.6	.1	.0	70	.0	1.0
4	.0	.0	*	.5	1.2	*	.0	123	*	1.8
3	.0	.0	.2	1.2	1.2	.1	.0	188	*	2.7
2	.0	*	.5	2.7	1.4	*	.0	315	*	4.5
1	.0	*	1.2	5.9	1.2	*	.0	576	.0	8.4
0	.0	*	3.4	12.1	.7	.0	.0	1116	.1	16.1
-1	.0	*	8.6	13.7	.2	.0	.0	1547	.2	22.3
-2	.0	.2	9.8	8.1	.1	.0	.0	1252	.1	18.1
-3	.0	.4	7.3	3.0	.1	.0	.0	744	.0	10.8
-4	.0	.6	3.7	1.2	*	.0	.0	383	.0	5.6
-5	.0	1.0	2.1	.7	.0	.0	.0	261	.0	3.8
-6	*	.6	.7	.2	.0	.0	.0	104	.0	1.5
-7/-8	*	.7	.5	.1	.0	.0	.0	92	.0	1.3
-9/-10	.0	.3	.2	.0	.0	.0	.0	31	.0	.5
-11/-13	*	.1	*	.0	.0	.0	.0	9	.0	.1
-14/-16	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	4		2643	3437	490	42	1	6886	29	6857
PCT	.1	3.9	36.4	49.9	7.1	.6	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.3	1.7	.0	.0	.0	.0	3.0	1.1	1.1	*	.0	.0	.0	2.2
1-2	.8	3.8	.2	.0	.0	.0	4.0	.5	2.9	.4	.0	.0	.0	3.9
3-4	.1	1.1	.3	.0	.0	.0	1.5	*	.9	.4	*	.0	.0	1.4
5-6	.0	.1	.1	.0	.0	.0	.0	.0	*	*	.1	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	6.8	.7	.0	.0	.0	9.7	1.6	4.9	1.0	*	.0	.0	7.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	.9	.1	.0	.0	.0	1.8	1.0	1.4	.1	.0	.0	.0	2.5
1-2	.8	3.5	.3	.0	.0	.0	4.5	.6	3.0	.6	.0	.0	.0	4.2
3-4	*	1.1	.5	.1	.0	.0	1.8	*	.7	.3	.0	.0	.0	1.0
5-6	.0	*	.2	*	.0	.0	.2	.0	.1	.1	*	.0	.0	.2
7	.0	*	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	5.5	1.2	.1	.0	.0	8.4	1.6	5.2	1.2	*	.0	.0	8.0

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	2.1	.1	.0	.0	.0	4.0	1.5	2.5	.1	.0	.0	.0	4.1
1-2	.9	5.1	1.0	.0	.0	.0	7.0	.8	5.7	.7	.0	.0	.0	7.1
3-4	.1	1.2	.5	.0	.0	.0	1.8	.1	1.9	.9	.0	.0	.0	2.9
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	8.5	1.8	.0	.0	.0	13.2	2.4	10.5	2.1	.0	.0	.0	15.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.5	1.9	.0	.0	.0	.0	3.5	1.4	1.8	.0	.0	.0	.0	3.1	
1-2	.7	4.8	.3	.0	.0	.0	5.8	1.0	3.9	.1	.0	.0	.0	5.0	
3-4	.2	.6	.2	.0	.0	.0	1.0	.0	1.1	.3	.0	.0	.0	1.5	
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	7.4	.7	.1	.0	.0	10.7	2.4	6.8	.5	.0	.0	.0	9.7	82.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	32.6	12.7	.3	.0	.0	.0	45.6	
1-2	7.5	29.6	3.2	.0	.0	.0	40.3	
3-4	.5	7.7	3.2	.1	.0	.0	11.4	
5-6	.0	.7	1.1	.1	.0	.0	1.9	
7	.1	.2	.3	.1	.0	.0	.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	40.6	51.0	8.1	.3	.0	.0	100.0	3677

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	15.9	11.5	3.4	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1803	2
6-7	.1	2.8	7.2	4.8	1.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	829	4
8-9	.1	1.5	3.8	2.8	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	4
10-11	.0	1.2	1.6	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	4
12-13	.0	.0	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	4
>13	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
INDET	13.7	7.5	5.1	2.1	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1405	2
TOTAL	923	1390	1468	715	218	52	28	6	5	4	2	0	0	0	0	0	0	0	0	4811	3
PCT	19.2	28.9	30.5	14.9	4.5	1.1	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

NOVEMBER

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.8		.2	.0	.0	.0	.0	1.5	.8	5.1	.2		1.2	.0	91.1
NE	2.0	1.7	.4	.0	.0	.0	.0	4.7	1.7	9.9	1.2	.0	2.0	.2	84.3
E	4.3	1.9	.4	.0	.0	.0	.2	6.7	2.9	4.4	1.8	.0	.9	.2	81.2
SE	5.7	3.0	1.0	.0	.0	.0	.0	9.4	2.6	8.7	1.7	*	1.6	.0	77.8
S	3.2	1.4	.4	.0	.0	.0	.0	4.9	4.3	11.5	.1	.4	1.4	.0	78.0
SW	2.6	1.3	.6	.0	.0	.0	.3	4.8	1.8	13.4	1.3	.0	1.3	.3	78.6
W	.6	.7	1.1	.0	.0	.0	.0	2.4	1.8	8.2	.5	.0	1.3	.0	86.0
NW	.5	.5	.3	.0	.0	.0	.0	1.3	.6	0.5	.5	.0	2.3	.0	89.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	1.1	.1	.0	.0	.0	.0	2.0	.9	9.4	.7	.0	3.8	.0	83.3
TOT PCT	1.9														
TOT OBS:	6379	1.2	.4	.0	.0	.0	*	3.5	1.6	7.8	.8	*	2.0	.1	84.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.2	.7	.3	.0	.0	.0	.0	2.3	1.6	15.5	.8	.1	2.1	.1	78.2
0600	3.4	1.6	.0	.0	.0	.0	.1	5.6	1.3	14.4	.8	.0	2.1	.1	76.9
1200	1.8	1.6	.4	.0	.0	.0	.1	3.8	1.9	.7	.5	.0	1.6	.0	91.7
1800	1.1	1.0	.3	.0	.0	.0	.0	2.3	1.3	2.3	1.3	.1	2.0	.1	90.9
TOT PCT	1.9														
TOT OBS:	7586	1.2	.4	.0	.0	.0	*	3.5	1.5	8.1	.8	*	2.0	.1	84.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	4.7	12.4	2.5	*	.0	.0		19.5	6.4	16.7	27.4	17.8	19.6	22.4	25.0	21.8	15.9	
NE	2.6	8.4	2.4	.1	*	.0		13.5	7.3	9.9	6.7	12.5	17.7	17.8	16.3	13.1	10.6	
E	2.1	5.0	1.1	.1	*	.0		8.3	6.6	6.6	2.1	7.8	11.1	10.8	4.9	7.6	7.2	
SE	2.6	5.1	.8	*	*	.0		8.6	5.9	8.6	4.7	8.4	9.0	8.9	6.8	8.5	9.0	
S	3.2	4.6	.5	*	.0	.0		8.3	5.1	9.3	7.3	8.1	7.1	6.7	13.0	8.7	9.6	
SW	2.5	4.4	.2	.0	.0	.0		7.1	4.9	9.3	10.6	6.6	5.3	4.8	2.4	6.8	11.1	
W	2.3	4.4	.2	*	.0	.0		6.8	4.9	7.8	9.7	6.8	5.2	5.4	5.6	7.1	9.1	
NW	3.8	8.3	.7	*	.0	.0		12.8	5.4	13.1	13.6	14.1	12.2	11.2	19.8	13.3	11.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	15.2							15.2	.0	14.8	17.9	17.9	12.6	12.0	6.3	13.1	16.4	
TOT OBS	4398	5944	940	39	4	0	11325	100.0	5.1	2226	134	2200	1012	2368	144	2212	1029	
TOT PCT	38.8	52.5	8.3	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	11.6	7.6	.3	.0	.0		19.5	6.4	17.3	18.4	22.5	19.9
NE	0.9	5.9	.6	*	.0		13.5	7.3	9.7	14.2	17.7	12.3
E	5.1	2.9	.3	*	.0		8.3	6.6	6.3	8.8	10.4	7.5
SE	5.9	2.5	.2	*	.0		8.6	5.9	8.3	8.6	8.8	8.6
S	6.4	1.7	.1	*	.0		8.3	5.1	9.2	7.8	7.0	9.0
SW	5.6	1.4	*	.0	.0		7.1	4.9	9.3	6.2	4.7	8.2
W	5.4	1.4	*	.0	.0		6.8	4.9	7.9	6.3	5.4	7.7
NW	9.3	3.3	.1	*	.0		12.8	5.4	13.1	13.5	11.7	12.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	15.2						15.2	.0	18.7	16.2	11.7	14.2
TOT OBS	8090	3032	104	9	0	11325	100.0	5.1	2360	3212	2512	3241
TOT PCT	71.4	26.8	1.7	.1	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973AREA 0009 CUNAKRY
9.1N 15.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	18.7	21.1	53.0	6.9	.3	.0	.0	.0	4.8	100.0	2360
0600	16.2	23.2	51.4	9.7	.5	.0	.0	.0	5.1	100.0	3212
1200	11.7	24.5	59.7	10.5	.4	.1	.0	.0	5.3	100.0	2512
1800	14.2	25.4	53.0	7.3	.2	.0	.0	.0	4.9	100.0	3241
TOT	1716	2882	5944	940	39	4	0	0	5.1		11325
PCT	15.2	23.7	52.5	8.3	.3	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	10.2	4.0	6.0	2.7		3.4
NE	4.6	2.1	3.9	2.6		4.2
E	1.7	1.5	2.4	1.5		4.7
SE	1.7	1.7	2.6	1.7		4.8
S	2.1	1.7	2.3	1.6		4.6
SW	1.9	1.4	1.9	.9		3.4
W	2.7	1.3	1.8	.5		3.4
NW	6.4	2.8	2.9	1.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	7.3	2.7	3.5	1.3		3.1
TOT OBS	1935	993	1367	709	5004	3.8
TOT PCT	38.7	19.8	27.3	14.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.0	.4	1.3	1.2	.2	.1	.2	.7	19.3	
NE	.0	.2	.4	1.1	.9	.3	.1	.1	.1	.4	9.7	
E	.0	.2	.3	.6	.7	.3	.1	.1	.1	.3	4.7	
SE	.0	.0	.4	.9	.6	.3	.1	.1	.1	.3	5.0	
S	.0	.0	.4	.8	.6	.2	.0	.1	.1	.3	5.3	
SW	.0	.0	.2	.5	.3	.1	.1	.1	.1	.1	4.6	
W	.0	.0	.0	.2	.5	.3	.1	.1	.1	.1	5.3	
NW	.0	.0	.0	.4	.6	.6	.1	.0	.0	.3	11.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.9	.6	.3	.1	.1	.3	12.2	
TOT OBS	10	2	25	156	368	289	101	34	36	119	3864	5004
TOT PCT	.2	.0	.5	3.1	7.4	5.8	2.0	.7	.7	2.4	77.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
>5000	3.2	3.8	3.9	3.9	3.9	3.9	3.9	3.9
>3500	4.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>2000	9.7	11.5	11.7	11.7	11.7	11.7	11.7	11.7
>1000	15.7	18.5	18.8	18.8	18.9	18.9	18.9	18.9
>600	18.1	21.3	21.6	21.7	21.8	21.8	21.8	21.8
>300	18.3	21.7	22.1	22.2	22.2	22.2	22.3	22.3
>150	18.4	21.8	22.2	22.2	22.3	22.3	22.3	22.3
>0	18.4	21.9	22.3	22.4	22.4	22.5	22.5	22.6
TOTAL	1091	1297	1323	1327	1331	1333	1337	1338

TOTAL NUMBER OF OBS: 5931

PCT FREQ NH <5/8: 77.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
24.4	16.5	15.8	12.6	7.7	5.5	5.5	4.3	7.5	6253

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

NOVEMBER

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	*	.0	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.0	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	*	*	.0	.0	*	.0	.0	.0	*	.1	
	NO PCP	*	.1	.1	.1	*	*	*	*	.0	.0	.5	
	TOT %	*	.1	.1	.1	*	*	*	*	.0	*	.5	
1<2	PCP	.0	*	*	.0	.0	*	.0	.0	.0	*	.1	
	NO PCP	*	*	*	*	*	*	.1	.1	.0	*	.2	
	TOT %	*	*	*	*	*	*	.1	.1	.0	.1	.3	
2<5	PCP	*	*	.1	.1	*	*	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.1	*	*	.1	*	.1	.0	.1	.8	
	TOT %	.1	.1	.1	.1	.1	.1	*	.1	.0	.1	1.0	
5<10	PCP	.2	.3	.3	.4	.1	.2	.1	.1	.0	.1	1.7	
	NO PCP	3.3	1.6	1.3	1.1	1.2	1.2	1.3	2.7	.0	2.5	16.2	
	TOT %	3.4	1.9	1.6	1.5	1.3	1.3	1.4	2.8	.0	2.6	17.9	
10+	PCP	.2	.3	.1	.3	.2	*	.1	.1	.0	.1	1.4	
	NO PCP	18.9	10.4	5.5	6.1	5.9	4.7	5.2	10.7	.0	11.4	78.7	
	TOT %	19.1	10.7	5.6	6.3	6.1	4.7	5.3	10.8	.0	11.5	80.1	
TOT OBS													6376
TOT PCT		22.7	12.9	7.6	8.2	7.5	6.3	6.7	13.8	.0	14.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	.0	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	*	*	.0	.0	.0	.0	.1	
1/2<1	0-3	*	*	*	*	*	.0	.0	*	.0	*	.1	
	4-10	*	.1	.1	.1	*	*	*	*	.0	*	.2	
	11-21	.0	*	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.1	.1	*	*	*	*	.0	*	.4	
1<2	0-3	*	*	*	*	.0	*	*	*	.0	.1	.2	
	4-10	*	*	*	*	*	*	.0	*	.0	.0	.1	
	11-21	.0	*	*	*	*	.0	.0	*	.0	.0	.1	
	22+	*	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	*	.1	*	.1	*	*	.0	.1	.5	
2<5	0-3	.1	*	*	*	*	.1	.1	*	.0	.3	.6	
	4-10	.1	.1	.1	*	.1	*	*	.1	.0	.0	.5	
	11-21	*	.1	.1	.1	*	*	.0	*	.0	.0	.3	
	22+	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.2	.2	.2	.2	.1	.1	.1	.2	.0	.3	1.5	
5<10	0-3	.9	.4	.5	.4	.6	.5	.5	.8	.0	2.8	7.5	
	4-10	1.9	1.2	.8	.9	.7	.9	.8	1.5	.0		8.7	
	11-21	.3	.4	.2	.2	.1	*	*	.2	.0		1.5	
	22+	*	*	*	.0	.0	.0	*	*	.0		.1	
	TOT %	3.1	2.0	1.5	1.6	1.4	1.4	1.3	2.6	.0	2.8	17.7	
10+	0-3	3.7	2.1	1.4	1.9	2.0	1.8	1.7	3.0	.0	12.4	30.1	
	4-10	11.5	7.0	3.7	3.7	3.7	3.2	3.6	6.9	.0		43.2	
	11-21	2.4	1.8	.6	.5	.4	.1	.1	.6	.0		6.5	
	22+	*	*	*	*	*	.0	*	*	.0		.1	
	TOT %	17.6	10.9	5.8	6.0	6.1	5.1	5.4	10.5	.0	12.4	79.8	
TOT OBS													8582
TOT PCT		21.0	13.3	7.7	7.9	7.7	6.7	6.8	13.3	.0	15.6	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1894-1973

NOVEMBER

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.1	.1	2.3	6.6	5.1	1.7	.5	.8	2.5	20.0	80.0	1465
06009	.4	.1	.9	2.8	7.0	5.4	1.7	.5	.7	1.7	21.2	78.8	1489
12015	.1	.0	.5	3.7	7.7	6.7	2.5	.7	.7	1.9	24.5	75.5	1642
18021	.0	.1	.2	2.2	6.6	5.0	2.1	1.3	.8	2.8	21.1	78.9	1556
TOT PCT	13 .2	4 .1	27 .4	172 2.8	428 7.0	342 5.6	123 2.0	46 .7	47 .8	137 2.2	1339 21.8	4813 78.2	6152 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.5	.2	1.5	17.9	79.7	2214
06009	.1	.0	.7	1.6	20.8	76.2	2624
12015	*	.3	.3	1.3	13.9	84.3	2319
18021	.0	.8	.5	1.3	18.4	79.1	2632
TOT PCT	10 .1	52 .5	42 .4	138 1.4	1748 17.9	7799 79.7	9789 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NH < 5/8 AND 3+	TOTAL OBS
00003	.4	.6	3.9	17.4	78.7	1415
06009	.4	1.8	5.7	17.2	77.1	1425
12015	.1	.7	5.2	20.5	74.3	1587
18021	.0	.4	3.3	18.9	77.8	1504
TOT PCT	13 .2	51 .9	269 4.5	1100 18.5	4562 76.9	5931 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.1	.0	.0	19	.3
85/89	.0	.0	.0	.2	1.8	5.2	1.1	.3	477	8.7
80/84	.0	.0	*	.5	3.5	35.5	31.8	4.6	4180	76.0
75/79	.0	.0	.0	.1	.2	3.3	7.5	3.5	804	14.6
70/74	.0	.0	.0	.0	.0	*	*	.3	20	.4
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	2	43	318	2430	2229	479	5501	100.0
PCT	.0	.0	*	.8	5.8	44.2	40.5	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	*	.1	.0	*	.1	*	*	.0	*
85/89	2.1	1.0	.5	.5	.7	.5	.8	1.3	.0	1.3
80/84	17.2	9.5	5.2	6.1	5.5	4.7	5.3	10.9	.0	11.7
75/79	3.5	2.3	1.5	1.4	1.4	.9	.6	1.2	.0	1.7
70/74	*	*	.2	.1	.0	*	.0	*	.0	.0
65/69	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	22.9	12.9	7.5	8.0	7.6	6.1	6.7	13.6	.0	14.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	84	83	81	78	76	72	80.7	2696
06009	90	85	83	81	77	74	67	80.3	3543
12015	92	90	87	83	78	75	73	82.8	2747
18021	92	88	86	82	78	76	66	82.0	3516
TOT	92	88	85	81	78	75	66	81.4	12502

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	1.8	36.1	53.6	8.3	81	1573
06009	.0	.2	2.1	31.6	53.1	13.0	82	1658
12015	.0	1.3	10.5	57.1	25.6	5.6	77	1649
18021	.0	1.1	8.2	52.2	32.0	6.5	78	1668
TOT	0	48	373	2903	2678	546	80	6548

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	*	.0	*	.0	2	.0	*
9/10	.0	.0	.0	*	*	.1	8	.0	.1
7/8	.0	.0	.1	.1	.2	.1	34	*	.5
6	.0	.0	*	.1	.3	.2	45	*	.6
5	.0	.0	*	.3	.7	.1	79	.0	1.2
4	.0	.0	.1	.6	1.1	.1	126	.0	1.9
3	.0	.0	.1	1.0	1.2	*	100	*	2.4
2	.0	*	.1	2.5	1.8	*	297	*	4.4
1	.0	.0	.6	6.6	1.3	*	574	.1	8.5
0	.0	.0	1.0	13.2	.8	*	1043	.1	15.5
-1	.0	*	4.8	17.4	.4	*	1513	.2	22.4
-2	.0	.1	7.4	11.2	.1	.0	1291	.2	18.6
-3	.0	*	6.1	5.0	.1	.0	746	.1	11.1
-4	.0	.2	3.4	2.2	*	.0	391	*	5.8
-5	.0	.2	1.9	1.1	.0	.0	214	*	3.2
-6	.0	.3	.7	.2	.0	.0	81	*	1.2
-7/-8	.0	.4	.6	.2	.0	.0	78	.0	1.2
-9/-10	*	.1	.2	.1	.0	.0	25	.0	.4
-11/-13	.0	.1	*	.0	.0	.0	8	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2		1850	549			6676	59	6617
PCT	*	108	4131	46			100.0	.9	99.1
		1.6	27.7	8.1	.7				

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.2	2.3	.1	.0	.0	.0	5.6	1.4	1.3	.1	.0	.0	.0	2.8
1-2	1.6	10.5	1.2	.0	.0	.0	13.3	.4	5.0	.8	.0	.0	.0	6.2
3-4	*	3.3	1.8	.0	.0	.0	5.1	1.7	1.0	.0	.0	.0	.0	2.7
5-6	.0	.2	.8	.0	.0	.0	1.0	.0	.1	.6	.0	.0	.0	.7
7	.0	.0	.2	*	.0	.0	.2	.0	*	.1	.0	.0	.0	.2
8-9	.0	.0	*	*	.0	.0	.1	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	16.4	4.2	.1	.0	.0	25.4	1.9	8.1	2.6	*	.0	.0	12.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.0	.0	.0	.0	.0	1.8	.8	1.1	.1	.0	.0	.0	2.1
1-2	.2	2.5	.1	.0	.0	.0	2.8	.5	2.9	.1	.0	.0	.0	3.5
3-4	.1	.5	.3	.0	.0	.0	.9	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.1	.3	.1	.0	.0	.5	.0	.1	.2	.0	.0	.0	.3
7	.0	*	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.1	.7	.1	.0	.0	6.0	1.4	4.5	.9	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.2	1.7	.0	.0	.0	.0	2.9	1.4	1.3	.0	.0	.0	.0	2.8	
1-2	.5	2.7	.2	.0	.0	.0	3.4	.5	2.2	.1	.0	.0	.0	2.8	
3-4	.1	.5	.4	.0	.0	.0	.9	.1	.2	*	.0	.0	.0	.3	
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	4.9	.6	.0	.0	.0	7.3	2.0	3.7	.1	.0	.0	.0	5.9	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.2	1.3	.0	.0	.0	.0	2.4	2.1	2.7	.0	.0	.0	.0	4.8		
1-2	.5	2.7	.1	.0	.0	.0	3.2	1.3	4.9	.5	.0	.0	.0	5.7		
3-4	*	.3	.1	.0	.0	.0	.4	.0	1.2	.4	.0	.0	.0	1.6		
5-6	.0	.1	.0	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1		
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.7	4.3	.1	.0	.0	.0	6.1	3.4	8.8	1.0	.0	.0	.0	13.2	83.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	33.7	11.9	.3	.0	.0	.0	45.9	
1-2	6.5	30.5	2.8	.0	.0	.0	39.7	
3-4	.5	7.1	3.8	.0	.0	.0	11.3	
5-6	.0	.6	1.7	.1	.0	.0	2.3	
7	.0	.1	.3	*	.0	.0	.5	
8-9	.0	.0	.1	*	.0	.0	.1	
10-11	.0	*	.0	.0	.0	.0	*	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	40.6	50.3	9.0	.1	.0	.0	100.0	3490

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	17.7	11.2	3.0	1.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1734	2
6-7	*	4.0	7.8	4.7	1.1	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	822	4
8-9	*	1.6	2.9	2.1	1.0	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	4
10-11	.0	1.2	1.2	.6	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	3
12-13	.0	.0	1.6	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	4
>13	.0	.0	.0	.4	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
INDET	14.2	7.4	5.1	1.9	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1321	2
TOTAL	871	1431	1347	591	200	46	20	7	1	0	0	0	0	0	0	0	0	0	0	4514	3
PCT	19.3	31.7	29.8	13.1	4.4	1.0	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1855-1973

DECEMBER

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRTN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WJ PCPN	FOG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
N	.2	.2	*	.0	.0	.0	.0	.4	.2	1.7	2.1	.0	6.1	1.6	87.9
NE	.2	.5	.1	.0	.0	.0	.0	.8	.6	1.6	3.3	.0	8.0	3.0	82.7
E	2.2	.8	.5	.0	.0	.0	.0	3.5	1.9	2.6	4.8	.0	11.4	2.0	74.4
SE	2.0	1.3	.0	.0	.0	.0	.0	3.3	1.3	3.7	4.3	.0	12.9	.1	75.0
S	1.4	.3	.0	.0	.0	.0	.0	1.7	1.6	7.0	2.2	.0	6.9	.3	81.2
SW	1.7	.5	.4	.0	.0	.0	.0	2.6	.0	5.8	4.0	.4	5.5	.1	82.4
W	1.0	.5	.3	.0	.0	.0	.0	1.8	.5	4.1	3.0	.0	8.7	.0	82.8
NW	.7	.2	.1	.0	.0	.0	.0	1.1	1.1	2.8	3.2	.1	6.9	.3	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.0	.0	.0	.0	.0	.2	.1	3.3	2.2	.0	14.0	1.8	78.3
TOT PCT	.6	.3	.1	.0	.0	.0	.0	1.0	.6	2.6	2.8	*	8.2	1.5	83.4
TOT OBS:	6776														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRTN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WJ PCPN	FOG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00003	.7	.4	.0	.0	.0	.0	.0	1.1	.6	5.8	2.2	.1	7.4	1.4	81.8
06009	.7	.5	.3	.0	.0	.0	.0	1.4	.5	4.9	4.0	.0	7.6	1.5	80.6
12015	.5	.3	.1	.0	.0	.0	.0	.9	.9	.3	2.8	.0	8.3	1.6	85.5
18021	.6	.3	.1	.0	.0	.0	.0	1.0	.6	.7	3.9	.0	9.8	1.6	82.7
TOT PCT	.6	.4	.1	.0	.0	.0	.0	1.1	.6	2.9	3.2	*	8.3	1.5	82.7
TOT OBS:	7676														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	4.2	17.4	6.3	.2	*	.0		28.1	7.9		23.9	31.1	28.2	29.2	32.6	38.1
NE	2.7	12.7	6.0	.4	.0	.0		21.9	8.8		16.3	19.9	18.7	25.9	28.7	24.7
E	1.7	3.7	.9	.2	*	.0		6.4	7.0		6.0	3.3	6.4	8.2	6.2	4.0
SE	1.4	2.1	.2	*	.0	.0		3.7	4.9		4.3	4.2	3.6	4.0	3.4	2.5
S	1.6	1.8	.1	*	.0	.0		3.5	4.7		4.9	5.5	3.4	2.2	2.3	.6
SW	1.4	2.3	.2	.0	.0	.0		3.9	5.0		5.4	3.1	4.1	2.7	2.0	1.9
W	2.0	3.6	.2	.0	.0	.0		5.8	5.1		7.1	5.9	5.7	3.4	4.6	5.9
NW	3.5	9.3	.9	*	.0	.0		13.7	5.8		14.8	13.1	14.4	14.3	12.1	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.9							12.9	.0		17.3	14.0	15.5	10.0	8.2	9.6
TOT OBS	3722	6247	1761	94	3	0	11827				2335	136	2323	1080	2470	157
TOT PCT	31.5	52.8	14.9	.8	*	.0		100.0	6.2		100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	12.5	14.4	1.2	*	.0		28.1	7.9		24.3	28.5
NE	8.6	11.5	1.7	*	.0		21.9	8.8		16.5	21.0
E	3.9	2.1	.4	*	.0		6.4	7.0		5.8	7.0
SE	3.0	.7	*	*	.0		3.7	4.9		4.3	3.7
S	2.8	.7	*	.0	.0		3.5	4.7		5.0	3.1
SW	3.0	.8	*	.0	.0		3.9	5.0		5.3	3.7
W	4.3	1.5	*	.0	.0		5.8	5.1		7.0	5.0
NW	9.4	4.2	.1	*	.0		13.7	5.8		14.7	14.4
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0
CALM	12.9						12.9	.0		17.2	13.7
TOT OBS	7139	4255	418	15	0	11827				2471	3403
TOT PCT	60.4	36.0	3.5	.1	.0		100.0	6.2		100.0	100.0

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1855-1973

DECEMBER

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	17.2	17.6	52.9	11.7	.6	*	.0	5.6	100.0	2471
0600	13.7	18.0	53.2	14.2	.9	*	.0	6.2	100.0	3403
1200	8.3	16.9	51.8	21.9	1.1	*	.0	7.3	100.0	2627
1800	12.7	21.0	53.2	12.4	.7	.0	.0	5.9	100.0	3326
TOT	1531	2191	6247	1761	94	3	0	6.2		11827
PCT	12.9	18.5	52.8	14.9	.8	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	18.6	5.5	6.3	3.9		2.8
NE	11.0	3.2	4.7	2.7		3.1
E	2.0	.5	.6	.8		3.3
SE	1.2	.5	.7	.4		3.5
S	1.3	.3	.6	.5		3.5
SW	1.4	.6	.6	.4		3.2
W	2.8	.9	1.2	.5		3.1
NW	6.9	2.4	3.1	1.5		3.1
VAR	.0	.0	.0	.0		.0
CALM	7.3	1.9	2.1	1.0		2.5
TOT OBS	2738	823	1045	609	5215	2.9
TOT PCT	52.5	15.8	20.0	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 259	300 559	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY HGT	<5/8 TOTAL OBS
*	.0	.1	.4	1.3	.8	.6	.2	.4	1.2	29.2		
*	.0	.1	.4	.6	.5	.4	.2	.3	.9	18.3		
.0	.0	.0	.2	.4	.1	*	*	.1	.2	3.0		
*	.0	.0	.1	.1	.1	.1	*	.1	*	2.2		
.0	.0	.0	.1	.3	.1	.1	*	*	*	2.0		
*	.0	*	.1	.2	*	*	*	*	*	2.6		
*	.0	*	*	.4	.1	.1	.0	.1	.1	4.7		
.0	.0	.0	.3	.7	.4	.2	.1	.1	.2	11.9		
.1	.0	.0	.1	.4	.3	.2	.1	.2	.2	10.8		
10	0	15	84	220	127	91	37	61	154	4416		
.2	.0	.3	1.6	4.2	2.4	1.7	.7	1.2	3.0	84.7	5215 100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	2.5	3.7	4.0	4.1	4.1	4.1	4.1	4.1
* OR >5000	3.0	4.4	4.7	4.7	4.7	4.7	4.7	4.7
* OR >3500	4.1	5.9	6.3	6.4	6.4	6.4	6.4	6.4
* OR >2000	5.7	8.3	8.8	8.8	8.9	8.9	8.9	8.9
* OR >1000	8.7	12.3	13.0	13.1	13.1	13.1	13.1	13.1
* OR >600	9.7	13.9	14.6	14.7	14.7	14.7	14.7	14.7
* OR >300	9.8	14.1	14.8	14.9	14.9	15.0	15.0	15.0
* OR >150	9.8	14.1	14.8	14.9	14.9	15.0	15.0	15.0
* OR >0	9.8	14.1	14.9	15.1	15.1	15.2	15.2	15.2
TOTAL	575	828	877	885	886	890	890	891

TOTAL NUMBER OF OBS: 5867

PCT FREQ NH <5/8: 84.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBSCD	TOTAL OBS
48.9	11.9	9.5	8.3	5.4	3.3	3.3	3.2	6.1	.1	6150

PERIOD: (PRIMARY) 1923-1973
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DECEMBER

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	*	*	.0	.0	.0	.0	*	*	.0	.0	.0	.1
	TOT %	*	*	.0	.0	.0	.0	*	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.4	.2	.1	.1	.1	.2	.2	.0	.0	1.6	
	TOT %	.3	.4	.2	.1	.1	.1	.2	.2	.0	.0	1.6	
1<2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.4	.4	.2	.1	.1	*	.3	.4	.0	.5	2.4	
	TOT %	.4	.4	.2	.1	.1	*	.3	.4	.0	.5	2.4	
2<5	PCP	.0	*	*	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.8	1.1	.1	.1	*	*	.1	.3	.0	.6	3.2	
	TOT %	.8	1.1	.1	.1	.1	*	.1	.3	.0	.6	3.3	
5<10	PCP	.1	.1	.1	*	*	*	*	.1	.0	.0	.5	
	NO PCP	6.3	5.2	1.6	.8	1.0	1.0	1.6	3.5	.0	4.6	25.4	
	TOT %	6.4	5.3	1.7	.8	1.1	1.0	1.6	3.6	.0	4.6	25.9	
10+	PCP	.1	*	*	.1	*	*	*	.1	.0	*	.4	
	NO PCP	24.3	14.0	2.5	1.6	1.9	2.3	3.7	9.3	.0	6.8	66.4	
	TOT %	24.4	14.1	2.5	1.7	2.0	2.3	3.7	9.3	.0	6.8	66.8	
TOT OBS													
TOT PCT													
32.3 21.2 4.8 2.8 3.2 3.5 5.9 13.8 .0 12.5 100.0 6773													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	.0	.0	*	*	.0	*	.1	
1/2<1	0-3	*	.1	*	*	.0	.0	*	*	.0	*	.2	
	4-10	.2	.1	.1	*	*	.1	.1	.2	.0	.0	.8	
	11-21	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.2	.1	.1	.1	.1	.2	.0	*	1.2	
1<2	0-3	*	.1	.1	.1	.1	*	.1	.1	.0	.4	1.1	
	4-10	.3	.2	.1	.1	*	.0	.1	.2	.0	.0	.9	
	11-21	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.4	.2	.1	.1	*	.2	.3	.0	.4	2.1	
2<5	0-3	.2	.1	*	*	*	*	.1	.2	.0	.7	1.3	
	4-10	.5	.8	.1	.1	*	*	*	.2	.0	.0	1.8	
	11-21	.2	.3	.1	*	*	.0	*	*	.0	.0	.6	
	22+	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.9	1.2	.2	.1	.1	.1	.1	.4	.0	.7	3.8	
5<10	0-3	1.2	.8	.4	.4	.5	.5	.6	1.1	.0	4.6	10.2	
	4-10	3.7	3.2	1.1	.6	.5	.6	.9	2.0	.0	.0	12.7	
	11-21	1.1	1.3	.2	*	*	.1	.1	.2	.0	.0	3.0	
	22+	*	*	*	*	*	.0	.0	*	.0	.0	.1	
	TOT %	6.0	5.4	1.8	1.1	1.1	1.2	1.6	3.3	.0	4.6	26.0	
10+	0-3	2.8	1.5	.7	.7	.8	.9	1.0	2.2	.0	7.3	18.0	
	4-10	14.1	8.6	1.7	1.0	1.1	1.6	2.5	6.5	.0	.0	37.0	
	11-21	5.5	4.2	.4	.1	.1	.1	.2	.7	.0	.0	11.2	
	22+	.2	.3	*	.0	.0	.0	.0	*	.0	.0	.5	
	TOT %	22.6	14.7	2.8	1.8	2.1	2.5	3.7	9.3	.0	7.3	66.7	
TOT OBS													
TOT PCT													
30.1 21.9 5.2 3.1 3.3 3.9 5.7 13.7 .0 13.1 100.0 8988													

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1855-1973

DECEMBER

AREA 0009 CONAKRY
9.1N 15.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.0	.1	1.5	3.5	1.8	1.2	1.0	1.2	2.1	12.7	87.3	1448
06009	.1	.0	.1	1.1	4.0	1.9	1.3	.5	.5	2.9	12.4	87.6	1458
12015	.1	.0	.2	2.1	4.2	2.9	1.7	.5	1.2	3.0	15.8	84.2	1655
18021	.2	.0	.6	1.6	4.7	3.0	2.1	.7	1.2	3.6	17.7	82.3	1494
TOT	11	0	15	96	248	146	97	40	83	176	892	5163	6055
PCT	.2	.0	.2	1.6	4.1	2.4	1.6	.7	1.0	2.9	14.7	85.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	1.0	1.5	3.6	27.8	65.9	2232
06009	*	1.8	2.1	4.2	27.5	64.3	2687
12015	.2	1.3	1.5	3.4	21.6	72.0	2328
18021	.2	2.2	2.9	3.9	26.9	64.1	2644
TOT	12	158	201	377	2573	6570	9891
PCT	.1	1.6	2.0	3.8	26.0	66.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	.4	5.1	11.0	83.9	1392
06009	.1	.4	6.0	10.4	83.6	1397
12015	.1	.4	5.3	13.2	81.5	1616
18021	.2	.9	6.2	14.6	79.2	1462
TOT	11	29	332	724	4811	5867
PCT	.2	.5	5.7	12.3	82.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	*	*	.0	14	.2
85/89	.0	.0	.1	.4	1.4	2.5	.6	.2	298	5.1
80/84	.0	*	.2	2.5	9.6	27.3	18.0	3.3	3560	60.9
75/79	.0	.0	.2	1.9	5.8	10.9	8.6	2.6	1755	30.0
70/74	.0	.0	.1	.4	.9	1.2	.9	.2	218	3.7
65/69	.0	.0	.0	*	.0	*	.0	.0	3	.1
TOTAL	0	1	32	305	1040	2456	1648	366	5848	100.0
PCT	.0	*	.5	5.2	17.8	42.0	28.2	6.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.1	*	*	*	.0	*	*	.0	.1	
1.3	.6	.2	.2	.2	.3	.4	.8	.0	1.0	
16.0	11.0	3.0	2.0	2.2	2.5	4.7	9.3	.0	10.2	
13.0	8.5	1.2	.5	.7	.5	.7	3.2	.0	1.8	
2.1	1.2	.2	*	*	.0	*	.1	.0	.1	
.0	*	*	.0	.0	.0	.0	.0	.0	.0	
32.4	21.3	4.6	2.8	3.1	3.4	5.8	13.4	.0	13.1	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	84	83	80	75	73	66	79.8	2726
06009	88	84	82	80	75	72	67	79.4	3654
12015	92	89	86	82	76	73	65	81.5	2743
18021	91	88	85	81	75	72	68	80.8	3542
TOT	92	87	85	81	75	72	65	80.3	12685

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	10.4	42.5	37.6	7.7	78	1589
06009	.0	3.9	10.1	37.8	38.6	9.6	79	1679
12015	.0	9.8	24.6	43.6	18.1	3.9	73	1662
18021	.0	5.3	21.8	45.2	23.1	4.7	75	1703
TOT	0	348	1115	2802	1939	429	76	6633

DECEMBER

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1855-1973

AREA 0009 CUNAKRY
9.1N 15.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 A8	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
11/13	.0	.0	.0	*	*	*	.0	4	.0	.1
9/10	.0	.0	.0	*	*	.1	.1	17	.0	.2
7/8	.0	.0	*	.1	.2	.2	.2	54	*	.7
5	.0	.0	*	.1	.1	.3	.1	45	*	.6
4	.0	.0	*	.2	.4	.5	.1	89	*	1.3
3	.0	*	.1	.3	.4	.7	.1	110	.1	1.5
2	.0	.0	.1	.8	1.2	1.0	*	219	.1	3.0
1	.0	.0	.3	1.1	2.5	.8	.0	326	.3	4.4
0	.0	.0	.7	2.6	5.9	.9	.0	698	.4	9.6
-1	.0	.1	1.2	4.6	10.3	.5	*	1160	.8	15.8
-2	.0	*	1.5	7.5	12.7	.2	.0	1530	.6	21.3
-3	.0	.1	1.2	8.4	7.7	*	.0	1211	.4	17.0
-4	.0	.1	.9	6.0	3.5	*	.0	736	.3	10.3
-5	.0	.1	.9	3.0	1.2	.0	.0	362	.2	5.0
-6	.0	.1	.7	1.7	.6	.0	.0	211	*	3.0
-7/-8	.0	*	.4	.7	.2	.0	.0	97	*	1.3
-9/-10	.0	*	.4	.5	.2	.0	.0	79	*	1.1
-11/-13	.0	.0	.2	.1	.0	.0	.0	15	.0	.2
TOTAL	.0	*	*	*	.0	.0	.0	5	.0	.1
PCT	1	50	599	2617	3296	302	43	6968	237	6731
	*	.7	8.6	37.6	47.3	5.2	.6	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	3.4	*	.0	.0	.0	5.6	1.2	2.1	.0	.0	.0	.0	3.2
1-2	1.3	12.7	2.6	.0	.0	.0	16.6	.7	6.9	1.0	.0	.0	.0	8.7
3-4	.1	4.4	5.0	*	.0	.0	9.6	.1	3.0	3.3	.2	.0	.0	6.6
5-6	.0	.5	2.1	.3	.0	.0	2.8	.0	.3	1.6	.3	.0	.0	2.1
7	.0	*	.6	.0	.0	.0	.6	.0	.1	.3	.2	.0	.0	.7
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*	.0	.0	.1	*	.0	.0	.1
12	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.7	21.0	10.5	.3	.0	.0	35.5	2.0	12.4	6.4	.7	.0	.0	21.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1	.3	.3	.0	.0	.0	.0	.7
1-2	.2	1.3	.1	.0	.0	.0	1.6	.1	.8	.1	.0	.0	.0	1.1
3-4	*	.5	.4	*	.0	.0	1.0	*	*	.1	.0	.0	.0	.1
5-6	.0	*	.2	.0	.0	.0	.7	.0	*	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.6	.7	*	.0	.0	3.9	.5	1.3	.3	.0	.0	.0	2.0

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0009 CONAKRY

TABLE 18 (CONT)

9.1N 15.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.4	.0	.0	.0	.0		1.0	.7	.4	.0	.0	.0	.0		1.1
1-2	.3	.7	.1	.0	.0	.0		1.1	.2	1.0	.1	.0	.0	.0		1.4
3-4	.1	.2	.1	.0	.0	.0		.4	.*	.2	.*	.0	.0	.0		.2
5-6	.*	.*	.*	.0	.0	.0		.1	.*	.*	.*	.0	.0	.0		.*
7	.*	.*	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.*	.0	.0	.0	.0		.*	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.*	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.9	1.5	.2	.0	.0	.0		2.6	.9	1.7	.1	.0	.0	.0		2.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.0	.8	.0	.0	.0	.0		1.7	1.8	1.7	.0	.0	.0	.0		3.5	
1-2	.5	2.1	.1	.0	.0	.0		2.7	1.3	5.5	.4	.0	.0	.0		7.2	
3-4	.1	.4	.0	.0	.0	.0		.5	.1	1.2	.6	.0	.0	.0		1.8	
5-6	.0	.0	.*	.0	.0	.0		.*	.0	.2	.*	.0	.0	.0		.2	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.6	3.2	.2	.0	.0	.0		5.0	3.2	8.6	1.1	.0	.0	.0		12.8	86.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.5	9.7	.*	.0	.0	.0	35.2	
1-2	5.6	29.3	4.2	.0	.0	.0	39.1	
3-4	.5	9.3	8.7	.2	.0	.0	18.8	
5-6	.*	.9	3.6	.5	.0	.0	5.1	
7	.*	.2	.9	.2	.0	.0	1.4	
8-9	.0	.0	.1	.1	.0	.0	.2	
10-11	.0	.*	.1	.*	.0	.0	.1	
12	.0	.*	.0	.0	.0	.0	.*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.7	49.5	17.8	1.0	.0	.0	100.0	3516

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<6	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.2	16.8	13.7	4.5	1.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1916	3
6-7	.1	2.7	7.9	4.4	2.4	.6	.2	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	829	4
8-9	.0	1.6	2.6	1.9	.7	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	340	4
10-11	.0	1.0	1.2	.4	.4	.1	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	4
12-13	.0	.0	1.3	.5	.3	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	4
>13	.0	.0	.0	.3	.1	.1	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
INDET	13.3	7.3	4.0	1.5	.3	.1	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1211	1
TOTAL	845	1343	1397	620	251	62	33	8	1	0	0	0	0	0	0	0	0	4560	3
PCT	18.5	29.5	30.6	13.6	5.5	1.4	.7	.2	.*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1973
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRIZ	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	2.8	1.3	.5	.0	.0	.0	.1	4.7	1.8	3.9	1.7	.0	3.9	.4
NE	5.4	2.1	.6	.0	.0	.0	.1	8.1	2.6	4.8	1.9	*	3.5	.6
E	6.4	3.4	.9	.0	.0	.0	*	10.6	4.4	4.9	2.4	.0	4.4	.6
SE	5.4	3.0	.8	.0	.0	.0	*	9.8	3.6	5.4	2.7	*	4.2	.1
S	4.0	3.5	.8	.0	.0	.0	*	8.2	4.0	5.5	1.8	.1	3.8	.2
SW	4.3	3.5	.9	.0	.0	.0	*	8.5	3.7	5.2	1.8	.1	3.7	.3
W	3.2	2.8	.8	.0	.0	.0	*	6.8	3.3	4.3	1.7	*	3.6	.3
NW	2.7	2.1	.6	.0	.0	.0	*	5.4	2.2	4.3	1.8	*	3.6	.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	1.0	.1	.0	.0	.0	.0	2.5	1.8	5.7	1.8	*	6.4	.7
TOT PCT	3.5	2.8	.7	.0	.0	.0	*	7.0	3.1	3.9	1.7	*	3.9	.5
TOT OBS: 82401														80.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRIZ	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	3.0	2.4	.7	.0	.0	.0	*	6.0	2.9	8.7	1.5	*	3.5	.4
06009	4.7	3.3	.9	.0	.0	.0	*	8.9	2.9	6.7	2.3	*	3.3	.4
12015	3.4	2.7	.7	.0	.0	.0	*	6.0	3.5	.4	1.5	*	4.1	.5
18021	2.9	2.8	.6	.0	.0	.0	*	6.2	2.8	1.4	2.2	*	4.5	.6
TOT PCT	3.5	2.8	.7	.0	.0	.0	*	7.0	3.0	4.2	1.9	*	3.9	.5
TOT OBS: 91116														79.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	2.4	10.1	3.9	.1	*	.0		16.5	7.8	13.7	14.6	15.0	17.5	20.3	19.9	17.8	13.4
NE	1.2	4.8	1.8	.1	*	.0		7.9	7.9	5.8	5.5	7.1	10.4	10.7	8.5	7.7	6.4
E	.8	2.2	.5	.1	*	.0		3.7	7.2	2.7	2.0	3.6	5.4	4.6	3.2	3.3	3.1
SE	1.1	2.6	.6	*	*	.0		4.3	6.5	4.0	3.4	3.9	5.0	4.7	4.0	4.1	4.2
S	1.7	5.4	2.5	.2	*	.0		9.7	6.6	11.0	10.4	9.3	8.1	8.9	9.9	10.0	10.7
SW	1.8	9.4	4.9	.3	*	.0		16.4	7.0	18.3	18.5	16.6	15.1	13.8	14.2	16.1	19.6
W	2.2	9.6	2.5	.1	*	.0		14.5	6.9	16.2	18.6	15.5	12.8	11.8	13.8	14.0	16.6
NW	2.8	13.3	3.1	.1	*	.0		19.3	7.3	18.6	18.4	20.1	19.2	19.3	22.0	19.8	17.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7							7.7	.0	9.6	8.7	8.9	6.4	5.9	4.4	7.1	8.4
TOT OBS							139413		7.3								
TOT PCT	21.8	57.4	19.8	1.0	*	.0		100.0		27671	1881	27089	12149	28895	1979	27608	12141
										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	18
N	7.3	8.4	.9	*	.0	16.5	7.8	13.8	15.8	20.3	16.4
NE	3.6	3.8	.5	*	.0	7.9	7.9	5.7	8.2	10.5	7.3
E	2.1	1.3	.2	*	.0	3.7	7.2	2.7	4.1	4.6	3.2
SE	2.6	1.5	.1	*	.0	4.3	6.5	4.0	4.2	4.6	4.2
S	4.4	4.5	.8	*	.0	9.7	6.6	11.0	8.9	9.0	10.2
SW	6.1	8.7	1.5	*	.0	16.4	7.0	18.4	16.1	13.8	17.2
W	7.3	6.6	.6	*	.0	14.5	6.9	16.4	14.7	12.0	14.8
NW	9.6	9.2	.5	*	.0	19.3	7.3	18.6	19.8	19.5	19.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7				.0	7.7	.0	9.5	8.1	5.8	7.5
TOT OBS					139413		7.3	29552	39238	30874	39749
TOT PCT	50.8	44.0	5.0	.2	*	100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS	
		1-3	4-10	11-21	22-33	34-47	48+			
0000	9.5	13.4	57.3	18.8	1.0	*	.0	7.1	100.0	29552
0600	8.1	13.7	58.2	18.9	1.0	.1	.0	7.2	100.0	39238
1200	5.8	13.8	57.3	22.1	1.0	*	.0	7.6	100.0	30874
1800	7.5	15.4	56.7	19.4	.9	*	.0	7.2	100.0	39749
								7.3		139413
PCT	7.7	14.1	57.4	19.8	1.0	*	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS		
N	9.5	2.9	4.0	2.0		3.8
NE	3.2	1.1	1.8	1.2		4.3
E	.8	.5	1.0	.7		4.7
SE	.7	.7	1.3	.9		4.5
S	1.6	1.5	3.6	3.1		4.3
SW	2.3	2.0	5.6	5.2		4.3
W	4.5	2.2	4.3	3.1		4.0
NW	9.7	3.5	4.9	2.7		3.9
VAR	.0	.0	.0	.0		.0
CALM	3.8	1.3	1.6	.8		3.4
TOT OBS					64579	4.1
TOT PCT	36.2	15.8	28.2	19.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	*	.1	.4	1.0	.7	.3	.1	.1	.5	15.3	
*	*	.1	.3	.5	.3	.2	.1	.1	.2	5.7	
*	*	.1	.2	.4	.2	.1	*	*	.1	1.9	
*	*	.1	.2	.5	.3	.1	*	*	.1	2.3	
*	*	.2	.9	1.7	1.1	.4	.1	*	.1	5.1	
.1	*	.3	1.6	2.7	1.6	.5	.2	.1	.2	7.9	
*	*	.2	.9	1.6	1.0	.4	.1	.1	.2	9.6	
*	*	.1	.6	1.4	.9	.4	.2	.2	.4	16.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	*	*	.2	.4	.3	.1	*	.1	.1	6.2	
											64579
.3	.1	1.1	5.3	10.2	6.4	2.4	.8	.7	1.9	70.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
= OR >6500	1.8	2.5	2.6	2.6	2.6	2.6	2.6	2.6
= OR >5000	2.5	3.3	3.5	3.5	3.5	3.5	3.5	3.5
= OR >3500	4.3	5.6	5.8	5.8	5.9	5.9	5.9	5.9
= OR >2000	9.1	11.7	12.1	12.2	12.2	12.2	12.2	12.2
= OR >1000	16.7	21.3	22.1	22.2	22.3	22.3	22.3	22.3
= OR >600	20.1	26.0	27.3	27.5	27.5	27.5	27.6	27.6
= OR >300	20.7	26.9	28.3	28.5	28.6	28.6	28.6	28.6
= OR >150	20.7	27.0	28.4	28.6	28.7	28.8	28.8	28.8
= OR >0	20.8	27.1	28.6	28.9	29.0	29.0	29.1	29.1

TOTAL NUMBER OF OBS: 70810

PCT FREQ NH <5/8: 70.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
30.0	10.5	11.2	10.4	8.1	5.6	6.4	5.6	12.0	.2	74610

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TABLE 8

AREA 0009 CDNAKKY
9.1N 15.6W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.2	.1	*	*	*	.1	.1	.2	.0	*	.8	
	TOT %	.2	.1	.1	*	.1	.1	.1	.2	.0	*	.9	
1<2	PCP	*	*	*	*	*	.1	*	*	.0	*	.2	
	NO PCP	.2	.1	*	*	*	.1	.1	.2	.0	.1	.9	
	TOT %	.2	.1	.1	.1	.1	.1	.2	.2	.0	.1	1.1	
2<5	PCP	*	*	*	.1	.2	.3	.2	.1	.0	*	.9	
	NO PCP	.4	.2	.1	*	.1	.2	.3	.4	.0	.2	1.9	
	TOT %	.4	.2	.1	.1	.3	.5	.4	.5	.0	.2	2.3	
5<10	PCP	.1	.1	.1	.2	.6	1.2	.6	.3	.0	*	3.4	
	NO PCP	3.6	1.6	.8	.7	1.7	2.8	3.2	4.7	.0	1.6	20.8	
	TOT %	3.8	1.7	.9	1.0	2.4	4.1	3.8	4.9	.0	1.7	24.2	
10+	PCP	.1	.1	.1	.1	.4	.7	.4	.2	.0	.1	2.3	
	NO PCP	13.2	5.1	2.1	2.6	6.6	9.9	9.6	14.6	.0	5.0	68.5	
	TOT %	13.3	5.2	2.2	2.7	7.0	10.6	10.0	14.7	.0	5.1	70.8	
TOT Obs		82315											
TOT PCT		17.8	7.4	3.3	3.9	9.9	15.4	14.5	20.6	.0	7.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	*	
	22+	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	*	*	*	*	*	.1	.1	.0	*	.5	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	*	.0	*	.0	*	*	*	*	.0	*	*	
	TOT %	.1	.1	*	*	.1	.1	.1	.2	.0	*	.7	
1<2	0-3	*	*	*	*	*	*	*	.1	.0	.1	.3	
	4-10	.1	*	*	*	*	.1	.1	.1	.0	*	.5	
	11-21	*	*	*	*	*	.1	*	*	.0	*	.2	
	22+	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	.2	.1	.1	.1	.1	.2	.2	.2	.0	.1	1.1	
2<5	0-3	.1	*	*	*	*	.1	.1	.1	.0	.3	.8	
	4-10	.3	.2	.1	.1	.1	.3	.3	.4	.0	*	1.7	
	11-21	.1	.1	*	*	.1	.3	.1	.1	.0	*	.9	
	22+	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	.4	.3	.1	.1	.3	.7	.5	.6	.0	.3	3.4	
5<10	0-3	.6	.3	.2	.2	.4	.5	.6	.7	.0	1.9	5.4	
	4-10	2.2	1.1	.5	.6	1.1	2.1	2.3	3.2	.0	*	13.0	
	11-21	.8	.4	.1	.2	.8	1.5	.7	.8	.0	*	5.2	
	22+	*	*	*	*	.1	.1	*	*	.0	*	.3	
	TOT %	3.6	1.8	.9	1.0	2.3	4.1	3.6	4.7	.0	1.9	23.9	
10+	0-3	1.7	.8	.5	.7	1.1	1.2	1.5	2.0	.0	5.5	14.9	
	4-10	7.7	3.3	1.4	1.7	4.0	6.6	7.0	10.0	.0	*	41.9	
	11-21	3.1	1.2	.3	.4	1.7	3.0	1.6	2.3	.0	*	13.5	
	22+	.1	.1	*	*	.1	.1	*	*	.0	*	.4	
	TOT %	12.6	5.4	2.2	2.8	6.8	10.9	10.1	14.3	.0	5.5	70.6	
TOT Obs		106252											
TOT PCT		17.0	7.6	3.3	4.0	9.7	16.0	14.5	20.0	.0	7.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.1	.9	4.8	8.8	5.2	2.0	.6	.5	1.7	24.9	75.1	17512
06009	.4	.2	1.4	5.9	11.3	6.6	2.3	1.0	.5	1.9	31.6	68.4	17189
12015	.2	.2	1.1	5.2	10.2	6.8	2.5	.9	.8	1.9	29.6	70.4	19537
18021	.1	.2	.9	4.7	9.1	6.1	2.4	.9	.7	2.2	27.3	72.7	18671
TOT PCT	.3	.1	1.1	5.1	9.8	6.2	2.3	.8	.6	1.9	28.4	71.6	72909 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.6	.8	3.3	24.0	71.1	26315
06009	.2	1.1	1.1	3.8	27.3	66.5	30493
12015	.2	.7	1.1	3.4	20.5	74.2	27156
18021	.1	1.0	1.3	3.3	24.1	70.2	31023
TOT PCT	.2	.9	1.1	3.4	24.1	70.4	114987 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ NH < 5/8 AND 5+	TOTAL OBS
00003	.4	1.5	8.7	18.5	72.7
06009	.5	2.2	11.0	23.2	65.9
12015	.2	1.7	9.3	22.2	68.4
18021	.1	1.3	8.7	21.1	70.3
TOT PCT	.3	1.7	9.4	21.3	69.3

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	.1	.0	.1	.1
85/89	.0	.1	.1	.1	.7	2.1	.6	.1	3.6	.1
80/84	.0	.1	.1	.4	2.7	18.8	20.2	3.2	43.4	.4
75/79	.0	.1	.1	.3	1.6	8.0	19.5	9.5	38.9	.9
70/74	.0	.0	.1	.1	.5	1.9	4.4	3.0	9.9	.2
65/69	.0	.0	.0	.1	.1	.3	1.0	.6	2.0	.1
60/64	.0	.0	.0	.0	.0	.1	.1	.1	.3	.0
TOT PCT	.0	.1	1.0	5.7	31.1	45.8	16.4	69.474	100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
.7	.3	.2	.2	.3	.3	.5	.8	.0	.5
6.7	3.3	1.8	2.3	4.6	6.5	6.9	8.6	.0	4.6
6.0	2.5	1.0	1.3	4.6	8.3	6.1	7.1	.0	1.9
3.7	.9	.2	.1	.3	.5	.8	3.1	.0	.3
.9	.2	.1	.1	.1	.1	.1	.7	.0	.1
.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
18.1	7.3	3.2	3.8	9.8	15.5	14.4	20.4	.0	7.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	83	82	79	73	71	63	78.3	31864
06009	91	83	82	78	73	70	62	77.9	41531
12015	94	88	85	80	74	71	61	80.1	32331
18021	93	87	84	80	74	72	61	79.5	41558
TOT	94	86	84	79	73	71	61	78.9	147284

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	2.5	22.4	54.5	20.3	84	18728
06009	.0	.6	2.7	20.9	52.8	23.0	84	19113
12015	.0	2.0	9.4	42.4	35.5	10.7	79	19299
18021	.0	1.1	7.4	38.0	41.3	12.2	80	19711
TOT	0	789	4212	23866	35303	12681	82	76851

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	*	*	*	.0	6	.0	*
14/16	.0	.0	.0	.0	*	*	*	*	.0	26	*	*
11/13	.0	.0	.0	*	*	.1	*	*	*	133	*	.2
9/10	.0	*	*	*	.1	.1	*	*	*	249	*	.3
7/8	.0	.0	*	.1	.2	.2	.2	.1	*	602	*	.7
6	.0	*	*	.1	.2	.2	.2	*	*	560	*	.7
5	.0	*	.1	.2	.3	.4	.4	.1	.0	1125	*	1.3
4	.0	*	.1	.3	.4	.7	.5	*	.0	1670	.1	2.0
3	*	*	.2	.4	.7	1.1	.6	*	.0	2535	.1	3.0
2	*	.1	.4	.7	1.3	2.3	.7	*	.0	4448	.2	5.3
1	*	.2	.6	1.2	2.7	4.1	.6	*	.0	7658	.3	9.1
0	*	.2	.8	1.6	5.9	7.0	.4	*	.0	13048	.4	15.6
-1	*	.2	.8	1.8	9.5	7.6	.2	*	.0	16345	.4	19.7
-2	*	.1	.5	1.7	8.7	5.1	.1	.0	.0	13199	.2	15.9
-3	*	.1	.4	1.7	6.3	2.2	*	.0	.0	8821	.1	10.7
-4	.0	*	.3	1.4	3.4	1.0	*	.0	.0	4972	.1	6.0
-5	*	.2	1.2	2.0	.5	.0	.0	.0	.0	3217	*	3.9
-6	.0	*	.1	.7	.7	.1	.0	.0	.0	1344	*	1.6
-7/-8	*	.1	.7	.5	.1	.0	.0	.0	.0	1227	*	1.5
-9/-10	*	*	.1	.2	.1	*	.0	.0	.0	342	*	.4
-11/-13	.0	*	*	.1	*	.0	.0	.0	.0	123	*	.1
-14/-16	*	*	*	*	.0	.0	.0	.0	.0	14	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL										81666		
PCT	*	1.1	4.8	14.1	43.0	32.8	3.8	.3	*	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.8	.1	.0	.0	.0	3.2	.6	.8	*	.0	.0	.0	1.4
1-2	.8	6.6	1.3	.0	.0	.0	8.8	.3	2.4	.4	.0	.0	.0	3.0
3-4	.1	2.4	2.3	*	.0	.0	4.8	*	.9	.8	*	.0	.0	1.8
5-6	*	.3	1.0	.1	.0	.0	1.4	.0	.1	.4	*	.0	.0	.5
7	.0	*	.3	*	*	.0	.4	.0	*	.1	*	.0	.0	.2
8-9	.0	*	*	*	.0	.0	.1	.0	.0	*	*	.0	.0	*
10-11	.0	*	*	*	.0	.0	*	.0	*	*	*	.0	.0	*
12	.0	*	*	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	11.2	5.1	.1	*	.0	18.7	.9	4.2	1.7	.1	.0	.0	6.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	*	.0	.0	.0	.7	.4	.5	*	.0	.0	.0	.9
1-2	.2	1.1	.1	.0	.0	.0	1.3	.2	1.3	.2	.0	.0	.0	1.6
3-4	*	.3	.2	.0	.0	.0	.6	*	.3	.2	*	.0	.0	.5
5-6	*	.1	.1	*	.0	.0	.2	*	*	.1	*	.0	.0	.2
7	.0	*	*	*	.0	.0	*	.0	*	*	.0	.0	.0	*
8-9	.0	.0	*	*	.0	.0	*	.0	*	*	.0	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	.5	*	.0	.0	2.8	.6	2.2	.6	*	.0	.0	3.4

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.0	*	.0	.0	.0	1.7	.8	1.5	.1	.0	.0	.0	2.4
1-2	.4	3.1	.7	.0	.0	.0	4.1	.5	4.9	1.0	.0	.0	.0	6.3
3-4	.1	1.1	1.2	* .0	.0	.0	2.4	*	1.7	2.1	* .0	.0	.0	3.8
5-6	*	.1	.8	* .0	.0	.0	1.0	*	.3	1.3	.1	*	.0	1.7
7	*	*	.2	* .0	.0	.0	.3	*	*	.4	.1	*	.0	.5
8-9	.0	*	.1	* .0	.0	.0	.1	.0	*	*	*	.0	.0	.1
10-11	.0	*	*	* .0	.0	.0	*	*	*	*	*	.0	.0	.1
12	*	.0	*	* .0	.0	.0	*	.0	.0	*	*	.0	.0	*
13-16	.0	.0	*	* .0	.0	.0	*	.0	*	*	*	.0	.0	*
17-19	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.3	3.0	.1	*	.0	9.6	1.3	8.4	4.9	.2	*	.0	14.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.2	2.0	.1	.0	.0	.0	3.2	1.5	2.6	.1	.0	.0	.0	4.1	
1-2	.7	5.9	.8	.0	.0	.0	7.3	1.0	8.5	1.1	.0	.0	.0	10.6	
3-4	.1	1.6	1.2	* .0	.0	.0	2.8	.1	2.6	1.6	* .0	.0	.0	4.3	
5-6	*	.2	.6	* .0	.0	.0	.8	*	.3	.7	* .0	.0	.0	1.0	
7	*	*	.1	* .0	.0	.0	.2	.0	*	.2	* .0	.0	.0	.2	
8-9	.0	*	*	* .0	.0	.0	*	.0	*	*	* .0	.0	.0	*	
10-11	.0	*	*	* .0	.0	.0	*	*	*	.0	*	.0	.0	*	
12	.0	*	.0	.0 .0	.0	.0	*	.0	*	.0	*	.0	.0	*	
13-16	.0	*	.0	.0 .0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
17-19	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.9	9.7	2.7	.1	*	.0	14.4	2.5	14.1	3.7	.1	*	.0	20.3	91.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.7	10.5	.3	.0	.0	.0	29.6	
1-2	4.7	32.0	5.3	.0	.0	.0	42.0	
3-4	.4	10.3	9.0	.1	.0	.0	19.9	
5-6	*	1.3	4.7	.3	*	.0	6.3	
7	*	.2	1.2	.2	*	.0	1.7	
8-9	.0	*	.2	.1	.0	.0	.3	
10-11	*	*	.1	.1	*	.0	.1	
12	*	*	*	*	.0	.0	.1	
13-16	*	*	*	*	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.0	54.4	20.8	.8	*	.0	100.0	43498

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	3.9	15.7	13.3	4.7	1.4	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	22165	3
6-7	.1	2.4	7.5	6.2	2.5	.7	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	21229	4
8-9	*	1.1	2.8	2.7	1.6	.5	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	5089	5
10-11	.0	1.1	1.0	.9	.5	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2164	4
12-13	.0	.0	1.3	.5	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1250	4
>13	.0	*	.0	.4	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	372	6
INDET	9.1	6.8	5.1	2.5	.9	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	13908	2
TOTAL PCT	13.1	27.1	31.1	17.9	7.3	2.2	.9	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	56177	3

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

TABLE 20

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PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	.1
87/88	.3	.1	.1	.8	1.3	.7	.3	.1	.1	.8	.9	.6	704	.5
85/86	1.2	.8	1.0	3.4	6.6	6.4	1.9	.4	1.2	4.7	6.4	3.8	4319	3.1
83/84	8.6	4.4	5.1	11.0	22.3	24.6	10.8	3.1	6.3	23.6	32.1	22.6	20005	14.5
81/82	23.7	15.1	15.3	19.8	29.9	46.7	41.0	24.0	32.5	48.8	47.2	38.4	43781	31.8
79/80	20.2	17.8	16.0	15.5	15.2	15.8	36.6	47.9	44.1	17.7	10.5	17.6	31561	22.9
77/78	16.0	16.4	14.2	12.8	10.2	3.7	7.5	21.1	13.8	3.4	1.9	9.5	15032	10.9
75/76	11.7	12.4	12.0	10.2	7.2	1.3	1.3	2.5	1.4	.6	.5	4.6	7586	5.5
73/74	9.3	12.3	11.4	9.4	4.3	.4	.4	.6	.4	.2	.1	2.2	5878	4.3
71/72	4.9	8.7	9.6	7.2	1.9	.2	.1	.2	.1	.1	.1	.6	3893	2.8
69/70	2.4	5.6	7.0	5.2	.6	.1	.1	.1	.1	.1	.1	.2	2480	1.8
67/68	1.2	3.8	5.2	2.9	.2	.0	.1	.1	.0	.0	.0	.1	1576	1.1
65/66	.3	1.7	2.2	1.1	.1	.0	.0	.0	.0	.0	.0	.0	642	.5
63/64	.1	.6	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	218	.2
61/62	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	11381	11143	11913	11658	11653	10809	11774	11738	10981	11265	11523	11577	137815	100.0
MEAN	78.2	76.4	76.0	77.7	80.5	81.7	80.6	79.5	80.1	81.7	82.1	80.8	79.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1011	1011	1012	1012	1010	1010	1011	1011	8684
FEB	1012	1011	1011	1012	1012	1010	1010	1011	1011	8651
MAR	1012	1010	1010	1012	1012	1010	1010	1010	1011	9226
APR	1012	1010	1011	1012	1012	1010	1010	1011	1011	8917
MAY	1013	1011	1011	1012	1013	1011	1011	1011	1012	8960
JUN	1014	1013	1013	1014	1014	1012	1012	1013	1013	8392
JUL	1014	1013	1013	1014	1015	1013	1013	1014	1014	9051
AUG	1014	1013	1013	1014	1014	1013	1012	1013	1013	9234
SEP	1014	1012	1012	1013	1014	1012	1012	1013	1013	8410
OCT	1013	1011	1012	1013	1013	1011	1011	1012	1012	9083
NOV	1012	1011	1011	1012	1012	1010	1010	1011	1011	8934
DEC	1012	1011	1011	1012	1012	1010	1010	1011	1011	9022
ANN	1013	1011	1012	1013	1013	1011	1011	1012	1012	106564
OBS	22466	2245	21858	6022	23393	2283	22317	5980		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1004	1008	1010	1011	1013	1015	1016	1032
FEB	997	1005	1008	1010	1011	1013	1015	1017	1033
MAR	998	1004	1007	1010	1011	1012	1014	1016	1030
APR	997	1005	1009	1010	1011	1012	1014	1016	1022
MAY	996	1004	1008	1011	1012	1013	1015	1017	1024
JUN	999	1007	1010	1012	1013	1014	1016	1018	1026
JUL	999	1008	1011	1013	1014	1015	1017	1018	1023
AUG	1000	1009	1010	1012	1013	1014	1016	1018	1026
SEP	1001	1008	1010	1012	1013	1014	1016	1017	1025
OCT	999	1007	1009	1011	1012	1013	1015	1017	1025
NOV	996	1004	1008	1010	1011	1013	1014	1016	1028
DEC	995	1006	1008	1010	1011	1013	1014	1016	1027

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1960-1973

JANUARY

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	
N	2.1	.7	.2	.0	.0	.0	.0	3.0	1.1	5.4	3.2	.2	11.3	1.2		75.5
NE	3.5	2.1	.7	.0	.0	.0	.0	6.4	.6	4.5	5.7	.0	9.8	1.3		72.9
E	4.9	4.6	.0	.0	.0	.0	.0	9.5	1.4	5.2	1.7	.0	8.4	.4		75.7
SE	2.3	2.5	.5	.0	.0	.0	.0	5.1	2.9	6.5	1.8	.0	2.3	.3		82.1
S	2.4	3.5	.5	.0	.0	.0	.0	6.4	2.5	5.8	1.2	.0	1.5	.1		84.1
SW	2.9	3.5	.6	.0	.0	.0	.0	7.0	3.2	6.3	1.4	.0	1.4	.1		79.8
W	2.4	1.4	.3	.0	.0	.0	.2	4.2	2.3	7.4	2.4	.0	2.7	.2		82.1
NW	3.1	1.6	.2	.0	.0	.0	.0	4.9	1.8	6.0	2.9	.0	4.2	.0		79.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.7	.9	.0	.0	.0	.0	.0	1.6	1.8	6.8	3.9	.0	13.9	.9		71.4
TOT PCT	2.5	2.6	.4	.0	.0	.0	*	5.4	2.3	6.7	2.2	*	4.3	.3		80.0
TOT OBS:	6029															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	
0000	2.6	2.1	.4	.0	.0	.0	.0	5.0	2.5	12.7	1.7	.0	4.4	.2		75.1
0600	4.6	3.0	.6	.0	.0	.0	.0	8.2	2.2	13.6	3.0	.0	3.2	.2		72.2
1200	2.0	2.3	.2	.0	.0	.0	.0	4.5	2.9	.7	2.1	.1	5.3	.4		84.5
1800	1.4	2.5	.4	.0	.0	.0	.1	4.4	1.8	1.7	2.7	.0	4.9	.4		84.6
TOT PCT	2.6	2.5	.4	.0	.0	.0	*	5.5	2.3	7.0	2.4	*	4.5	.3		79.2
TOT OBS:	6685															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	2.0	4.1	.5	*	.0	.0		6.6	5.5	3.4	4.9	5.1	10.3	10.9	10.6	5.8	4.8	
NE	1.4	3.1	.5	*	.0	.0		5.1	6.3	2.8	2.9	3.3	8.1	8.3	6.1	4.7	4.4	
E	1.0	2.2	.5	.0	.0	.0		3.7	6.3	2.8	3.5	3.9	5.1	4.8	3.4	3.1	2.7	
SE	1.9	7.7	1.3	*	.0	.0		11.0	6.8	13.0	6.8	11.9	10.0	10.4	7.4	10.0	9.9	
S	3.5	19.8	3.6	*	.0	.0		26.9	7.1	28.1	31.4	27.9	24.9	25.9	26.5	26.8	26.3	
SW	2.8	12.8	1.6	.1	.0	.0		17.3	6.7	17.9	17.6	18.0	16.0	14.6	20.4	18.2	19.3	
W	2.2	7.4	.6	*	.0	.0		10.3	5.9	11.5	19.5	10.2	8.6	7.1	10.5	11.3	13.2	
NW	2.2	6.6	.4	*	.0	.0		9.2	5.8	8.5	3.9	8.5	9.8	9.9	8.3	9.9	9.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.9							9.9	.0	12.0	9.4	11.2	7.1	8.1	6.8	10.3	9.5	
TOT OBS	2644	6240	887	14	1	0	9786		5.9	1952	128	1856	801	2061	148	1978	862	
TOT PCT	27.0	63.8	9.1	.1	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18		
										03	09	15	21	
N	4.7	1.8	.1	.0	.0		6.6	5.5	3.5	6.7	10.9	5.5		
NE	3.1	1.8	.1	*	.0		5.1	6.3	2.8	4.7	8.2	4.6		
E	2.3	1.3	.1	.0	.0		3.7	6.3	2.9	4.3	4.7	3.0		
SE	5.8	5.1	.1	*	.0		11.0	6.8	12.6	11.3	10.2	10.0		
S	13.2	13.5	.2	.0	.0		26.9	7.1	28.3	27.0	25.9	26.6		
SW	9.4	7.7	.2	*	.0		17.3	6.7	17.8	17.4	15.0	18.5		
W	6.7	3.5	*	.0	.0		10.3	5.9	12.0	9.7	7.3	11.9		
NW	6.1	3.1	*	.0	.0		9.2	5.8	8.2	8.9	9.8	9.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	9.9						9.9	.0	11.9	9.9	8.0	10.0		
TOT OBS	5998	3706	79	3	0	9786		5.9	2080	2657	2209	2840		
TOT PCT	61.3	37.9	.8	*	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1860-1973

JANUARY

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	11.9	15.2	63.9	8.8	.2	.0	.0	.0	5.8	100.0	2080
0600	9.9	17.3	63.7	9.0	.1	.0	.0	.0	5.9	100.0	2657
1200	8.0	17.7	63.8	10.2	.2	.0	.0	.0	6.1	100.0	2209
1800	10.0	17.6	63.7	8.4	.1	.0	.0	.0	5.7	100.0	2840
TOT	973	1671	6240	887	14	1	0	5.9			9786
PCT	9.9	17.1	63.8	9.1	.1	.0	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.6	1.9	1.0	3.9	3.9
NE	1.8	.5	.9	1.0	3.8	3.8
E	1.0	.4	.6	.7	4.1	4.1
SE	2.8	2.8	3.4	1.8	4.4	4.4
S	6.3	8.7	10.1	4.6	4.5	4.5
SW	3.9	4.5	6.3	2.8	4.5	4.5
W	2.7	2.6	2.8	1.4	4.0	4.0
NW	2.6	1.7	2.8	1.2	4.2	4.2
VAR	.0	.0	.0	.0	.0	.0
CALM	4.2	2.1	2.5	1.4	3.4	3.4
TOT OBS	1294	1162	1494	735	4645	4.2
TOT PCT	27.9	25.0	31.3	15.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	500 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.3	.5	.3	.2	.0	.0	.4	5.1	
NE	.0	.0	.0	.2	.3	.2	.1	.1	.1	.2	3.1	
E	.0	.0	.0	.2	.3	.1	.1	.0	.0	.1	1.8	
SE	.0	.0	.1	.4	1.3	.8	.3	.2	.1	.1	7.4	
S	.0	.0	.3	1.5	4.0	1.8	.7	.2	.2	.1	20.8	
SW	.1	.0	.1	.9	2.1	1.2	.5	.1	.1	.1	12.4	
W	.0	.0	.0	.4	.6	.5	.2	.1	.0	.2	7.4	
NW	.0	.0	.1	.2	.8	.4	.2	.1	.0	.1	6.2	
VAR	.1	.0	.0	.4	.9	.6	.2	.0	.0	.0	7.7	
CALM	14	0	33	213	507	280	118	38	28	74	3340	4645
TOT PCT	.3	.0	.7	4.6	10.9	6.0	2.5	.8	.6	1.6	71.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.2	2.3	2.3	2.3	2.3	2.3	2.3
>5000	2.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
>3500	4.0	5.7	5.9	5.9	5.9	5.9	5.9	5.9
>2000	8.3	11.2	11.6	11.7	11.7	11.7	11.7	11.7
>1000	16.2	21.3	22.2	22.3	22.3	22.3	22.3	22.3
>600	19.6	25.9	26.9	27.0	27.0	27.0	27.0	27.0
>300	20.1	26.5	27.6	27.7	27.7	27.7	27.7	27.7
>150	20.1	26.5	27.6	27.7	27.7	27.7	27.7	27.7
>0	20.2	26.7	27.8	28.0	28.0	28.0	28.0	28.0
TOTAL	1030	1365	1423	1431	1432	1433	1433	1433

TOTAL NUMBER OF OBS: 5110

PCT FREQ NH <5/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
15.8	10.0	16.4	17.5	11.9	7.4	7.4	5.0	8.4	.2	5427

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1860-1973

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4.0N 11.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
	TOT %	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
1/2<1	PCP	*	.0	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	.1	*	.1	.2	.1	.1	.2	.0	*	.8	
	TOT %	.1	.1	*	.1	.2	.1	.1	.2	.0	*	1.0	
1<2	PCP	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	NO PCP	.1	.1	.2	*	.2	.1	.1	.1	.0	.2	1.1	
	TOT %	.1	.1	.2	.1	.2	.1	.1	.1	.0	.3	1.2	
2<5	PCP	*	.1	*	*	.1	*	*	.1	.0	*	.4	
	NO PCP	.5	.3	.1	.1	.2	.1	.2	.2	.0	.6	2.4	
	TOT %	.5	.4	.2	.2	.3	.2	.2	.2	.0	.7	2.8	
5<10	PCP	.1	.1	.2	.3	1.1	.6	.1	.2	.0	.1	2.8	
	NO PCP	2.5	1.8	1.1	2.5	4.9	3.8	2.4	2.4	.0	2.6	24.0	
	TOT %	2.6	1.9	1.3	2.8	5.9	4.4	2.6	2.6	.0	2.6	26.8	
10+	PCP	.1	.1	.1	.2	.7	.5	.2	.1	.0	*	2.0	
	NO PCP	3.4	1.9	1.5	7.6	22.0	12.4	5.2	5.5	.0	5.7	66.2	
	TOT %	3.4	1.9	1.6	7.8	22.7	12.9	5.4	5.6	.0	5.7	68.2	
TOT OBS													6022
TOT PCT													
		6.7	4.4	3.3	11.0	29.3	17.8	9.4	8.8	.0	9.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	4-10	*	.0	.0	*	*	*	.0	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
1/2<1	0-3	.1	*	*	*	.1	*	*	.1	.0	*	.3	
	4-10	.1	*	*	.1	.1	.1	.1	.1	.0		.5	
	11-21	.0	.0	*	*	*	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	*	*	.1	.2	.1	.1	.2	.0	*	.8	
1<2	0-3	*	.1	.1	*	.1	*	*	*	.0	.2	.6	
	4-10	.1	.1	.1	.1	.1	*	.1	.1	.0		.6	
	11-21	.0	*	.0	.0	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.2	.1	.2	.1	.1	.1	.0	.2	1.2	
2<5	0-3	.2	.1	.1	.1	.2	.1	.1	.1	.0	.9	1.8	
	4-10	.3	.2	.1	.1	.2	.3	.3	.2	.0		1.7	
	11-21	*	.1	*	*	.1	*	*	*	.0		.4	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.5	.5	.2	.2	.5	.4	.4	.3	.0	.9	3.9	
5<10	0-3	.8	.5	.3	.4	.8	.9	.7	.7	.0	3.2	8.4	
	4-10	1.7	1.3	.8	1.7	3.9	3.1	1.9	1.9	.0		16.3	
	11-21	.2	.2	.2	.4	.7	.4	.2	.2	.0		2.5	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0		*	
	TOT %	2.7	2.1	1.3	2.5	5.5	4.4	2.8	2.9	.0	3.2	27.3	
10+	0-3	1.0	.7	.5	1.1	2.2	1.9	1.3	1.3	.0	5.6	15.6	
	4-10	2.2	1.4	1.0	5.8	16.4	9.9	4.9	4.0	.0		45.6	
	11-21	.2	.1	.2	.8	2.7	1.0	.3	.2	.0		5.5	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	TOT %	3.4	2.3	1.7	7.7	21.3	12.8	6.5	5.5	.0	5.6	66.8	
TOT OBS													7812
TOT PCT													
		6.8	5.0	3.4	10.6	27.6	17.9	9.9	9.0	.0	10.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1860-1973

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AREA 0010 MONROVIA
4.0N 11.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.2	.0	.5	3.3	8.9	3.8	2.2	.0	.2	1.2	20.9	79.1	1224
06609	.4	.0	.6	6.4	11.6	6.2	2.9	1.0	.4	1.6	31.0	69.0	1279
12615	.3	.0	.9	4.3	11.0	6.9	2.6	1.0	.6	1.5	29.1	70.9	1443
18621	.3	.0	.6	4.1	9.3	5.3	3.0	.7	1.2	2.0	26.4	73.6	1376
TOT	16	0	35	240	544	299	142	45	32	83	1436	3886	5322
PCT	.3	.0	.7	4.5	10.2	5.6	2.7	.8	.6	1.6	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.8	1.3	4.1	26.0	67.9	1892
06609	.1	1.5	1.2	4.0	29.6	63.5	2244
12615	.1	.7	.7	3.3	25.5	69.6	2010
18621	.1	1.2	1.4	3.7	28.1	65.5	2326
TOT	7	90	100	322	2321	5632	8472
PCT	.1	1.1	1.2	3.8	27.4	66.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	.3	.8	7.5	16.3	76.2	1179
06609	.4	1.1	10.9	23.9	65.3	1207
12615	.3	1.3	7.7	23.3	69.1	1397
18621	.3	1.0	7.8	21.4	70.8	1327
TOT	16	53	431	1089	3590	5110
PCT	.3	1.0	8.4	21.3	70.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.1	.0	*	.0	5	.1
85/89	.0	.0	.0	*	.6	2.9	.9	.2	236	4.7
80/84	.0	.0	*	.7	2.2	24.6	38.1	7.2	3645	72.9
75/79	.0	.0	.0	.3	.4	2.6	13.4	5.3	1100	22.0
70/74	.0	.0	.0	.0	.0	.1	.3	.3	17	.3
TOTAL	0	0	1	51	105	1506	2620	651	5003	100.0
PCT	.0	.0	*	1.0	3.3	30.1	52.5	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	*	*	.0	*	.0	.0	*
85	.4	.3	.2	.4	.9	.6	.5	.7	.0	.6
80	5.2	3.0	2.1	7.6	20.7	13.0	7.3	6.2	.0	7.7
75	1.1	.8	.9	2.6	8.4	4.1	1.4	1.4	.0	1.3
70	*	.1	*	.1	.1	*	.0	.0	.0	*
TOT	6.7	4.3	3.2	10.6	30.1	17.8	9.3	8.3	.0	9.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	90	84	83	81	78	76	70	80.5	2242
06609	89	84	82	80	77	74	72	80.0	2847
12615	91	89	86	82	78	74	71	82.1	2319
18621	91	87	85	82	78	76	72	81.6	2981
TOT	91	87	85	81	77	75	70	81.0	10389

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.4	1.8	20.8	62.3	14.7	84	1304
06609	.0	.0	1.5	18.4	61.0	18.6	84	1376
12615	.0	1.4	5.3	43.4	40.8	9.0	80	1416
18621	.0	1.5	4.5	36.5	47.4	10.1	80	1448
TOT	0	55	184	1667	2916	722	82	5544

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PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1860-1973AREA 0010 MONROVIA
4.0N 11.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	.1	.0	*	7	.0	.1
9/11	.0	.0	.0	.1	*	.1	12	.0	.2
7/8	.0	.0	*	.1	*	.1	17	*	.2
6	.0	.0	*	*	.1	.1	18	*	.3
5	.0	.0	.1	.3	.5	.1	63	*	1.0
4	.0	*	.1	.4	.7	*	75	*	1.2
3	.0	.0	.2	.9	.9	.0	120	*	2.0
2	.0	.0	.5	2.5	1.1	*	248	.2	3.9
1	*	*	1.5	5.7	.8	*	491	.3	7.9
0	.0	.0	4.2	13.4	.4	*	1086	.6	17.5
-1	.0	*	9.3	15.1	.2	.0	1482	.6	24.1
-2	.0	.2	9.5	10.1	.1	.0	1192	.4	19.5
-3	*	.2	5.8	3.6	*	.0	577	.2	9.4
-4	.0	.2	2.9	1.7	.0	.0	290	.1	4.7
-5	*	.3	1.9	1.0	.0	.0	197	.1	3.2
-6	.0	.2	.5	.3	.0	.0	65	*	1.1
-7/-8	.0	.2	.5	.1	.0	.0	51	*	.8
-9/-10	*	.1	*	*	.0	.0	10	*	.1
-11/-13	*	.1	.0	.0	.0	.0	5	*	.1
-14/-16	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	7		2233		295		6009	159	5850
PCT	.1	1.6	37.2	55.7	4.9	.5	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N										NE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	1.1	2.2	*	.0	.0	.0	3.3			.7	.8	.1	.0	.0	.0	1.5			
1-2	.6	2.6	.3	.0	.0	.0	3.5			.3	1.9	.3	.0	.0	.0	2.4			
3-4	.0	.4	.3	.0	.0	.0	.7			.1	.2	.1	.0	.0	.0	.5			
5-6	.0	.0	*	.0	.0	.0	*			.0	*	*	.0	.0	.0	.1			
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	*	.0	.0	*			
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	1.7	5.2	.7	.0	.0	.0	7.6			1.1	2.9	.5	*	.0	.0	4.5			

E										SE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.3	.4	*	.0	.0	.0	.7			.6	1.2	*	.0	.0	.0	1.9			
1-2	.1	1.1	.2	.0	.0	.0	1.4			.5	4.3	.4	.0	.0	.0	5.3			
3-4	.0	.3	.2	.0	.0	.0	.5			*	1.4	.7	.0	.0	.0	2.1			
5-6	.0	.1	.0	.0	.0	.0	.1			.0	.2	.1	.0	.0	.0	.4			
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	*	.0	.0	.0	*			
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.4	1.9	.4	.0	.0	.0	2.7			1.2	7.2	1.3	.0	.0	.0	9.7			

PERIOD: (OVER-ALL) 1963-1973

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AREA 0010 MUNROVIA
4.0N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	2.6	.1	.0	.0	.0	4.1	1.6	1.7	*	.0	.0	.0	3.4
1-2	1.1	14.7	1.3	.0	.0	.0	17.1	1.3	9.3	.3	.0	.0	.0	10.9
3-4	.2	4.2	1.8	.0	.0	.0	6.3	*	1.7	.8	*	.0	.0	2.5
5-6	.0	.5	.6	.0	.0	.0	1.2	.0	.1	.2	.0	.0	.0	.3
7	.0	*	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	22.0	4.0	.0	.0	.0	28.7	3.0	12.8	1.3	*	.0	.0	17.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.5	1.7	.0	.0	.0	.0	3.2	1.3	1.6	.0	.0	.0	.0	2.8	
1-2	.6	4.3	.2	.0	.0	.0	5.3	.6	3.6	.2	.0	.0	.0	4.3	
3-4	*	.8	.2	.0	.0	.0	.8	.1	1.0	.2	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	6.5	.4	.0	.0	.0	9.2	1.9	6.1	.4	.0	.0	.0	8.4	87.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	23.0	11.8	.3	.0	.0	.0	35.1	
1-2	6.0	40.0	2.9	.0	.0	.0	48.9	
3-4	.5	9.3	4.0	*	.0	.0	13.9	
5-6	*	.9	1.0	.0	.0	.0	1.9	
7	.0	*	*	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	*	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	29.5	62.0	8.4	.1	.0	.0	100.0	3075

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD [SEC]	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	6.5	21.3	12.6	2.7	.6	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1678	2
6-7	.1	3.5	7.8	3.2	1.1	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	613	4
3-9	*	1.6	2.4	1.7	.7	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	4
10-11	.0	1.4	1.3	.7	.2	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	4
12-13	.0	.0	1.7	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	4
>13	.0	.0	.0	.4	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
INDET	12.9	6.5	5.1	1.5	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1014	1
TOTAL	74.7	1316	1182	403	122	43	18	2	3	0	0	0	0	0	0	0	0	0	0	0	3836	3
PCT	19.5	34.3	30.8	10.5	3.2	1.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1867-1973

FEBRUARY

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	3.7	1.8	.9	.0	.0	.0	.0	6.5	2.4	5.2	1.8	.0	4.7	.2	80.4		
NE	5.9	5.7	1.5	.0	.0	.0	.0	13.1	1.3	8.1	3.4	.0	4.6	.0	71.4		
E	11.0	3.8	.0	.0	.0	.0	.0	14.7	3.2	8.9	5.7	.0	8.9	.0	63.1		
SE	3.1	4.2	*	.0	.0	.0	.0	7.3	2.5	7.7	.9	.0	2.6	.0	80.0		
S	2.8	2.0	.2	.0	.0	.0	.0	5.5	3.0	8.0	.4	.1	2.1	.0	82.4		
SW	2.7	1.6	.2	.0	.0	.0	.0	4.4	2.6	7.7	.8	.0	1.7	.0	84.1		
W	3.2	2.8	.7	.0	.0	.0	.0	6.7	2.0	6.2	1.4	.0	2.3	.0	81.9		
NW	1.7	1.6	.7	.0	.0	.0	.0	3.8	1.4	7.2	.7	.0	4.7	.0	82.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.5	.8	.0	.0	.0	.0	.0	2.1	2.1	7.4	1.8	.0	6.6	.0	80.0		
TOT PCT	2.9	2.4	.4	.0	.0	.0	.0	5.7	2.4	7.4	1.1	*	3.2	*	81.3		
TOT OBS:	5948																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00003	2.7	2.7	.3	.0	.0	.0	.0	5.6	2.0	14.8	.9	.0	3.1	.0	75.2		
06009	4.3	3.1	.3	.0	.0	.0	.0	7.7	2.8	13.4	1.5	.1	3.2	.0	73.8		
12015	2.6	2.5	.5	.0	.0	.0	.0	5.6	2.8	1.1	1.3	.0	3.5	.0	86.0		
18021	2.5	1.9	.5	.0	.0	.0	.0	4.8	2.1	2.4	1.9	.0	3.4	.1	85.9		
TOT PCT	3.0	2.5	.4	.0	.0	.0	.0	5.9	2.4	7.7	1.4	*	3.3	*	80.4		
TOT OBS:	6635																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.7	4.4	.5	*	.0	.0		6.6	5.8	3.9	3.2	4.9	9.6	11.0	4.7	6.7	4.0	
NE	1.0	2.2	.4	*	.0	.0		3.6	6.2	2.1	2.3	3.2	7.0	5.1	3.3	3.1	2.9	
E	.8	2.0	.2	*	.0	.0		3.0	5.7	1.8	1.6	3.1	4.5	3.4	2.8	2.9	3.0	
SE	1.8	7.4	1.1	.0	.0	.0		10.2	6.8	11.6	6.5	10.4	8.9	10.4	7.7	10.3	8.6	
S	3.6	17.5	2.8	.1	.0	.0		23.9	7.1	25.3	28.4	23.6	22.4	24.4	23.6	22.9	23.3	
SW	2.8	13.7	1.5	*	.0	.0		18.0	6.6	18.6	22.3	18.4	15.0	15.3	21.5	18.8	21.9	
W	2.4	9.6	.9	*	.0	.0		12.9	6.2	13.8	11.9	13.4	11.9	9.7	14.0	13.8	16.4	
NW	2.8	9.9	1.2	*	.0	.0		13.9	6.3	12.3	11.3	13.5	14.2	15.0	16.1	15.7	11.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.9							7.9	.0	10.7	12.6	9.5	6.5	5.8	6.3	5.8	8.3	
TOT OBS	2307	6213	797	17	2	0	9336	6.0		1869	111	1833	723	1999	127	1915	759	
TOT PCT	24.7	66.5	8.5	.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	4.5	2.1	*	*	.0			6.6	5.8	3.9	6.3	10.6	5.9	
NE	2.5	1.0	.1	*	.0			3.6	6.2	2.1	4.2	3.0	3.0	
E	2.1	.8	.1	.0	.0			3.0	5.7	1.8	3.5	3.4	2.9	
SE	5.5	4.5	.2	.0	.0			10.2	6.8	11.3	9.9	10.2	9.8	
S	11.7	11.8	.4	*	.0			23.9	7.1	25.4	23.3	24.3	23.0	
SW	10.1	7.7	.2	*	.0			18.0	6.6	18.8	17.4	15.7	19.7	
W	7.9	4.8	.1	*	.0			12.9	6.2	13.6	13.0	9.9	14.5	
NW	8.5	5.3	.2	*	.0			13.9	6.3	12.3	13.7	15.0	14.5	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	7.9							7.9	.0	10.8	8.7	5.8	6.5	
TOT OBS	5668	3547	116	5	0	9336		6.0		1980	2556	2126	2674	
TOT PCT	60.7	38.0	1.2	.1	.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1857-1973

FEBRUARY

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	10.8	16.1	64.9	8.0	.1	.1	.0	.0	5.9	100.0	1980
06009	8.7	18.2	64.6	8.2	.3	*	.0	.0	5.9	100.0	2556
12015	5.8	16.2	68.3	9.5	.1	.0	.0	.0	6.3	100.0	2126
18021	6.5	16.6	68.7	8.5	.2	.0	.0	.0	6.1	100.0	2674
TOT	734	1573	6213	797	.7	.2	.0	.0	6.0		9336
PCT	7.9	16.8	66.4	8.5	.2	*	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	1.6	2.5	1.4	4.5	4.5
NE	1.0	.5	.8	.9	4.6	4.6
E	.2	.4	.5	.7	5.7	5.7
SE	3.0	2.8	3.4	1.8	4.3	4.3
S	6.3	7.7	8.7	3.5	4.4	4.4
SW	4.7	5.1	5.5	2.2	4.1	4.1
W	3.1	2.5	3.5	2.3	4.4	4.4
NW	4.7	3.0	4.3	2.7	4.2	4.2
VAR	.0	.0	.0	.0	.0	.0
CALM	2.8	1.3	1.7	.9	3.4	3.4
TOT OBS	1273	1146	1418	753	4590	4.3
TOT PCT	27.7	25.0	30.9	16.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
*	.0	.1	.5	.8	.6	.2	*	*	.2	5.1	
.0	*	.1	.2	.3	.3	.1	.1	.1	.1	2.0	
.0	.0	*	.2	.3	.2	.1	.0	*	*	1.1	
.0	*	.1	.4	1.1	1.0	.4	*	.1	.1	7.6	
.0	*	.2	1.2	2.7	1.7	.7	.1	*	.1	19.3	
.0	.0	*	.6	1.6	.8	.5	.1	.1	.2	13.6	
.1	.0	.2	.6	1.1	.8	.4	.1	.1	.3	7.8	
*	.0	*	.6	1.3	1.1	.4	.1	*	.4	10.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.5	.5	.1	*	*	.2	5.1	
5	5	34	206	437	321	135	31	23	69	3324	4590
.1	.1	.7	4.5	9.5	7.0	2.9	.7	.5	1.5	72.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>10	>5	>2	>1	>10	>5	>2	>1
>6500	1.6	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>5000	2.1	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>3500	4.5	5.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
>2000	10.0	12.3	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
>1000	17.7	21.5	22.1	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
>600	20.9	25.7	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
>300	21.2	26.3	27.2	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
>150	21.2	26.4	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
>0	21.2	26.4	27.3	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
TOTAL	1078	1337	1387	1395	1397	1399	1401	1401	1401	1401	1401	1401

TOTAL NUMBER OF OBS: 5074

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.7	12.6	16.5	17.1	11.8	7.5	7.2	4.7	8.8	.1	5378

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1967-1973

FEBRUARY

AREA 9010 MONROVIA
4.1N 11.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	*	*	.0	.0	*	.0	.0	.1	
	NO PCP	*	.0	*	*	*	.0	*	.0	.0	.0	.1	
	TOT %	*	.0	*	*	*	.0	*	.0	.0	.0	.1	
1/2<1	PCP	*	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.7	
	TOT %	.1	.1	.1	.1	.2	.1	.1	.1	.0	.0	.7	
1<2	PCP	.0	*	.0	*	.0	*	*	*	.0	*	.1	
	NO PCP	.1	*	.1	.1	.1	.1	.1	.2	.0	.1	.9	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.2	.0	.2	1.0	
2<5	PCP	*	.1	*	*	.1	*	*	*	.0	.0	.4	
	NO PCP	.2	.1	.1	.1	.2	.1	.2	.2	.0	.3	1.3	
	TOT %	.2	.2	.1	.1	.3	.1	.2	.2	.0	.3	1.8	
5<10	PCP	.2	.3	.2	.4	.6	.5	.2	.3	.0	*	2.7	
	NO PCP	1.6	.9	.4	2.3	4.1	3.0	2.6	2.6	.0	1.5	19.1	
	TOT %	1.8	1.2	.6	2.7	4.7	3.5	2.8	2.9	.0	1.5	21.8	
10+	PCP	.2	.1	.1	.4	.6	.3	.4	.3	.0	.1	2.4	
	NO PCP	4.9	1.9	1.2	8.1	19.7	13.7	7.8	10.6	.0	4.3	72.2	
	TOT %	5.1	2.0	1.3	8.5	20.3	14.0	8.2	10.9	.0	4.4	74.6	
TOT OBS		5940											
TOT PCT		7.3	3.5	2.2	11.5	25.6	17.8	11.5	14.3	.0	6.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	*	*	*	.0	*	.1	
	4-10	*	.0	.0	*	*	.0	*	*	.0	*	*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
	TOT %	*	.0	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	.0	.0	*	.0	*	.2	
	4-10	*	.1	*	*	.1	.1	.1	*	.0	*	.4	
	11-21	.0	*	.0	*	.0	.0	*	.0	.0	*	*	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.6	
1<2	0-3	*	.0	.1	*	*	*	*	*	.0	.1	.4	
	4-10	*	*	.1	.1	*	*	.1	.1	.0	.0	.4	
	11-21	.0	*	.0	*	.0	.0	*	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	.1	*	.1	.1	.1	.1	.1	.2	.0	.1	.9	
2<5	0-3	.1	.1	*	*	.1	.1	.1	.1	.0	.3	.8	
	4-10	.1	.1	.1	*	.1	.2	.3	.2	.0	1.0	.4	
	11-21	.0	.1	*	*	.1	*	*	.1	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	TOT %	.2	.2	.1	.1	.3	.3	.4	.3	.0	.3	2.2	
5<10	0-3	.4	.3	.2	.5	.9	.6	.6	.5	.0	1.8	5.9	
	4-10	1.1	.6	.4	1.5	2.9	2.8	2.1	2.3	.0		13.7	
	11-21	.2	.2	.1	.3	.4	.2	.2	.2	.0		1.7	
	22+	.0	*	*	.0	*	*	*	.0	.0		.1	
	TOT %	1.7	1.1	.6	2.3	4.3	3.6	3.0	3.0	.0	1.8	21.4	
10+	0-3	1.2	.6	.4	1.1	2.0	1.9	1.6	1.9	.0	5.4	16.1	
	4-10	3.3	1.3	1.0	6.1	15.3	10.8	6.7	7.7	.0		52.2	
	11-21	.4	.2	.1	.7	2.2	1.1	.5	1.0	.0		6.3	
	22+	*	*	*	.0	.0	.0	*	*	.0		.1	
	TOT %	4.9	2.2	1.4	8.0	19.5	13.8	8.8	10.7	.0	5.4	74.6	
TOT OBS		7455											
TOT PCT		7.0	3.6	2.4	10.6	24.4	17.8	12.4	14.3	.0	7.7	100.0	

PERIOD: (PRIMARY) 1925-1973
(JVER-ALL) 1867-1973

FEBRUARY

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.2	.1	.6	4.1	7.4	4.7	2.1	.7	.3	1.4	21.6	78.4	1224
06009	.2	.1	.8	4.9	9.4	7.1	2.6	.6	.5	1.2	27.4	72.6	1235
12015	.0	.1	.7	4.2	9.3	8.1	3.3	.8	.7	1.1	28.3	71.7	1440
18021	.0	.1	.7	4.3	10.5	6.5	3.4	.5	.6	2.4	28.8	71.2	1359
TOT PCT	5 .1	5 .1	36 .7	279 4.4	444 9.2	350 6.7	151 2.9	35 .7	28 .5	80 1.5	1403 26.7	3855 73.3	5258 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.6	.5	2.4	19.3	77.1	1829
06009	.5	1.2	1.2	2.3	26.0	68.8	2150
12015	.1	.7	.6	2.3	18.8	77.4	1960
18021	.2	1.0	1.3	2.0	22.1	73.4	2201
TOT PCT	18 .2	73 .9	75 .9	183 2.2	1768 21.7	6023 74.0	8140 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 3+	TOTAL OBS
00003	.2	1.0	6.5	17.0	76.5	1174
06009	.3	1.3	8.3	21.1	70.7	1186
12015	.1	1.0	6.8	22.9	70.3	1408
18021	.0	.8	6.3	24.3	69.4	1306
TOT PCT	6 .1	53 1.0	352 6.9	1089 21.5	3633 71.6	5074 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	*	.0	.0	1	*
90/94	.0	.0	.0	*	.2	.1	*	.0	19	.4
85/89	.0	.0	.0	.1	1.1	5.5	1.4	.4	431	8.4
80/84	.0	.0	.0	.2	1.5	26.0	41.4	6.9	3901	76.3
75/79	.0	.0	.0	.0	.1	1.9	8.0	4.4	736	14.4
70/74	.0	.0	.0	.0	.0	*	.1	.4	25	.5
TOTAL	0	0	0	12	167	1713	2606	615	5113	100.0
PCT	.0	.0	.0	.2	3.3	33.5	51.0	12.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
.0	.0	.0	.2	.1	*	*	*	.0	*
.6	.2	.1	1.4	2.3	1.2	1.0	1.2	.0	.4
4.9	2.1	1.3	8.4	21.6	14.8	8.5	9.8	.0	4.9
1.5	1.1	.7	1.4	2.8	1.8	1.5	2.6	.0	1.0
.1	.1	*	.1	*	*	.1	.1	.0	*
7.1	3.5	2.1	11.5	26.8	17.9	11.1	13.7	.0	6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	84	83	81	78	75	68	80.8	2154
06009	90	84	83	80	76	74	68	80.2	2760
12015	94	90	87	83	78	75	68	82.6	2249
18021	95	88	86	82	78	75	70	82.0	2803
TOT	95	88	85	81	77	75	68	81.4	9966

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	1.4	22.1	62.5	13.9	83	1351
06009	.0	.0	1.1	21.2	59.8	17.9	84	1438
12015	.0	.2	6.8	48.1	36.5	8.3	79	1453
18021	.0	.5	3.2	41.4	45.0	9.9	81	1460
TOT	0	12	180	1907	2892	711	82	5702

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1867-1973

FEBRUARY

AREA 0910 MONROVIA
4.1N 11.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	WU FOG
20/22	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
11/13	.0	.0	.0	.0	.1	.0	*	*	6	.0	.1
9/10	.0	.0	.0	.0	*	.0	*	*	5	.0	.1
7/8	.0	.0	.0	*	.1	.2	.2	*	31	*	.5
6	.0	.0	*	*	.1	.2	.1	.0	25	.0	.4
5	.0	.0	.0	.1	.3	.5	.1	.0	57	*	.9
4	.0	.0	*	.2	.7	.7	*	.0	96	*	1.6
3	.0	.0	*	.2	1.1	1.2	*	.0	150	*	2.5
2	.0	.0	.0	.5	3.0	1.7	*	.0	314	*	5.2
1	.0	.0	.1	1.0	6.3	1.8	.0	.0	547	.2	9.0
0	.0	.0	.1	3.1	13.9	1.2	.0	.0	1092	.4	17.5
-1	.0	.0	.1	6.2	17.8	.4	.0	.0	1460	.4	24.1
-2	.0	*	.2	6.5	10.6	.1	.0	.0	1037	.3	17.2
-3	.0	.0	.1	4.9	4.4	*	.0	.0	563	*	9.4
-4	.0	.0	.1	3.0	1.7	.0	.0	.0	290	*	4.8
-5	.0	.0	.2	1.3	.8	.0	.0	.0	140	*	2.3
-6	.0	.0	.2	.7	.2	.0	.0	.0	68	*	1.1
-7/-9	.0	.0	.2	.3	.1	.0	.0	.0	40	.0	.7
-9/-10	.0	*	.2	.1	*	.0	.0	.0	19	.0	.3
-11/-13	.0	*	*	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	6	1688	475	31	5	5950	90	5860		
PCT	*	.1	1.6	28.4	61.3	8.0	.5	.1	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	.9	.1	.0	.0	.0	1.7		.3	.5	.0	.0	.0	.0	.8	
1-2	.7	2.8	.3	.0	.0	.0	3.8		.3	1.0	.2	.0	.0	.0	1.5	
3-4	.1	.6	.4	.0	.0	.0	1.2		.0	.3	.1	.0	.0	.0	.3	
5-6	.0	.3	.1	.0	.0	.0	.7		.0	.0	.3	.0	.0	.0	.3	
7	.0	.2	.0	.0	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	4.8	.8	.0	.0	.0	7.2		.6	1.8	.5	.0	.0	.0	2.9	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.4		.4	1.1	*	.0	.0	.0	1.6	
1-2	.1	.6	.0	.0	.0	.0	.7		.4	5.2	.4	.0	.0	.0	6.0	
3-4	.0	.2	.1	.0	.0	.0	.2		*	1.4	.3	.0	.0	.0	1.8	
5-6	.0	.0	*	.0	.0	.0	*		.0	.2	.2	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.0	.1	.0	.0	.0	1.3		.9	7.9	1.1	.0	.0	.0	9.9	

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	2.3	.0	.0	.0	.0	3.3	1.0	2.0	.0	.0	.0	.0	3.1
1-2	.7	12.8	1.3	.0	.0	.0	14.9	1.2	9.4	.5	.0	.0	.0	11.2
3-4	.1	4.5	1.8	.0	.0	.0	6.5	.0	2.5	.6	.0	.0	.0	3.2
5-6	.0	.4	.4	.0	.0	.0	.8	.0	.3	.1	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	20.1	3.7	.0	.0	.0	25.6	2.5	14.3	1.3	.0	.0	.0	18.1

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	1.2	2.2	.0	.0	.0	.0	3.3	1.0	2.3	.0	.0	.0	.0	3.3	
1-2	.8	9.4	.2	.0	.0	.0	6.5	.9	6.6	.6	.0	.0	.0	8.0	
3-4	.1	1.2	.3	.0	.0	.0	1.6	.0	1.7	.6	.0	.0	.0	2.3	
5-6	.0	.1	.1	.0	.0	.0	.3	.0	.2	.1	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	9.0	.6	.0	.0	.0	11.7	2.0	10.8	1.3	.0	.0	.0	14.1	90.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.6	11.6	.1	.0	.0	.0	29.3	
1-2	6.3	41.5	3.3	.0	.0	.0	51.2	
3-4	.5	11.6	3.9	.0	.0	.0	16.1	
5-6	.0	1.5	1.2	.0	.0	.0	2.7	
7	.1	.2	.2	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.7	66.5	8.8	.0	.0	.0	100.0	2949

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	22.0	13.5	3.4	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1672	3
6-7	.0	3.0	8.6	5.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	695	4
8-9	.0	1.4	2.4	1.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	250	4
10-11	.0	1.5	1.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	4
12-13	.0	.0	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	4
>13	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
INDET	9.5	8.6	5.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	939	2
TOTAL	513	1390	1218	488	146	20	9	3	6	0	0	0	0	0	0	0	0	0	0	3793	3
PCT	13.5	36.6	32.1	12.9	3.8	.5	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1864-1973

MARCH

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWK	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG MU PCPN	FGG MU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA	
N	2.1	.5	.2	.0	.0	.0	.1	3.0	2.3	9.3	.7	.2	3.1	.0	82.5	
NE	9.0	1.7	.0	.0	.0	.0	.0	10.7	7.0	7.5	.1	.1	1.7	.0	74.7	
E	9.6	3.7	1.2	.0	.0	.0	.0	14.4	.7	17.0	2.1	.0	.0	.0	70.3	
SE	4.5	3.2	.4	.0	.0	.0	.0	8.0	3.2	9.1	1.2	.0	.4	.0	79.8	
S	3.6	3.7	.3	.0	.0	.0	.1	7.7	4.5	10.7	.6	.0	.8	.0	76.8	
SW	2.7	2.6	.3	.0	.0	.0	.0	5.7	4.6	11.0	.9	.0	.7	.0	77.9	
W	2.8	2.6	.7	.0	.0	.0	.0	6.1	2.8	9.0	1.0	.0	1.7	.1	79.7	
NW	1.9	1.9	.3	.0	.0	.0	.1	4.2	1.7	8.6	1.1	.0	2.7	.2	82.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.6	.4	.0	.0	.0	.0	2.0	1.6	9.4	1.0	.0	3.4	.2	82.5	
TOT PCT	3.2	4.5	.4	.0	.0	.0	*	6.1	3.3	9.9	.9	*	1.5	.1	79.2	
TOT OBS:	6001															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.3	1.9	.4	.0	.0	.0	.1	5.8	3.4	18.0	1.1	.0	1.4	.1	71.3
06009	3.8	2.7	.2	.0	.0	.0	.0	6.8	3.0	17.0	1.0	.1	1.4	.1	72.6
12015	2.8	2.7	.5	.0	.0	.0	.0	6.0	4.2	1.3	.6	.0	1.3	.1	87.2
18021	3.1	3.1	.3	.0	.0	.0	.1	6.6	3.0	4.2	1.0	.0	2.0	.1	84.1
TOT PCT	3.3	2.6	.4	.0	.0	.0	.1	6.3	3.4	10.0	.9	*	1.5	.1	78.9
TOT OBS:	6734														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.7	4.5	.5	.0	.0	.0		6.7	6.0	5.1	5.0	6.2	9.4	9.7	8.2	6.1	3.7	
NE	.9	2.3	.4	.1	.0	.0		3.6	6.6	2.8	2.8	3.0	5.8	5.1	4.8	2.9	2.8	
E	.7	1.5	.3	*	*	.0		2.5	6.7	2.1	.8	2.7	2.8	3.2	1.6	2.2	2.2	
SE	1.6	6.8	1.5	.1	*	.0		9.9	7.2	10.2	5.4	9.8	9.3	10.5	5.0	10.0	10.2	
S	3.9	15.1	2.3	*	*	.0		21.3	6.6	21.2	22.4	21.2	21.1	21.2	20.2	21.4	22.1	
SW	3.0	13.4	1.6	*	.0	.0		18.0	6.6	19.0	20.2	18.3	17.7	15.3	14.6	19.4	19.0	
W	2.7	11.0	1.1	*	.0	.0		14.8	6.3	15.3	20.6	14.2	13.0	12.2	18.0	16.1	18.2	
NW	2.6	10.9	1.2	*	.0	.0		14.8	6.4	13.3	10.8	14.9	15.2	15.4	22.0	15.6	14.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.3							8.3	.0	10.9	12.0	9.8	5.8	7.3	5.6	6.3	7.9	
TOT OBS	2555	6588	899	24	2	0	10068		6.0	2010	125	1989	851	2057	125	2025	886	
TOT PCT	25.4	65.4	8.9	.2	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	4.3	2.4	.1	.0	.0		6.7	5.1	7.1	9.6	5.3
NE	2.2	1.2	.1	*	.0		3.6	2.8	3.8	5.1	2.8
E	1.6	.7	.1	*	.0		2.5	2.0	2.7	3.1	2.2
SE	5.1	4.5	.3	*	.0		9.9	10.0	9.6	10.1	10.1
S	12.0	9.2	.2	*	.0		21.3	21.2	21.2	21.2	21.6
SW	10.1	7.8	.2	*	.0		18.0	19.1	18.1	15.2	19.3
W	8.8	5.8	.1	.0	.0		14.8	15.6	13.8	12.5	16.8
NW	8.8	5.9	.1	.0	.0		14.8	13.1	15.0	15.8	15.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	8.3						8.3	11.0	8.6	7.2	6.8
TOT OBS	6160	3776	125	7	0	10068		2135	2840	2182	2911
TOT PCT	61.2	37.5	1.2	.1	.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1804-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	11.0	16.8	63.0	8.9	.2	*	.0	5.9	100.0	2135	
0600	8.6	18.3	64.3	8.5	.3	*	.0	5.9	100.0	2840	
1200	7.2	16.5	65.8	10.2	.3	.0	.0	6.2	100.0	2182	
1800	6.8	16.0	68.0	8.5	.1	.0	.0	6.0	100.0	2911	
TOT	834	1721	6588	899	.24	2	0	6.0		10068	
PCT	8.3	17.1	65.4	8.9	.2	*	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.1	1.6	2.2	1.3		4.4
NE	.8	.5	1.0	1.2		5.2
E	.3	.5	.8	.6		5.4
SE	2.3	2.4	3.2	1.2		4.4
S	5.0	6.6	7.0	2.6		4.3
SW	4.6	4.3	6.4	2.9		4.5
W	4.4	3.2	4.9	2.4		4.3
NW	4.6	3.0	4.7	2.2		4.1
VAR	.0	.0	.0	.0		.0
CALM	3.4	1.9	2.6	1.2		3.7
TOT OBS	1311	1148	1563	745	4767	4.3
TOT PCT	27.5	24.1	32.8	15.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.0	*	.3	.8	.5	.4	.1	*	.2	4.9	
*	.0	.1	.3	.6	.4	.2	.0	*	.1	1.8	
*	.0	.0	.1	.4	.3	.1	*	*	*	1.2	
*	.0	*	.3	1.3	.7	.2	*	*	.1	6.5	
*	.0	.2	1.2	2.1	1.2	.5	.0	.1	.1	15.9	
.0	*	.2	1.0	2.1	1.1	.3	.1	.2	.1	13.1	
.1	*	.1	.7	1.3	1.0	.4	.1	.1	.2	10.9	
*	.0	.1	.6	1.2	1.2	.3	.1	.1	.2	10.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	*	.4	.8	.3	.1	.1	*	.2	7.1	
9	2	34	234	497	328	122	30	31	59	3421	4767
.2	*	.7	4.9	10.4	6.9	2.6	.6	.7	1.2	71.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>5000	2.0	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>3500	4.1	5.2	5.3	5.3	5.3	5.3	5.3	5.3
>2000	9.4	11.8	12.1	12.1	12.1	12.1	12.1	12.1
>1000	17.3	21.6	22.2	22.2	22.2	22.3	22.3	22.3
>600	20.7	26.2	27.0	27.1	27.1	27.2	27.2	27.2
>300	21.0	26.8	27.8	27.8	27.9	27.9	27.9	28.0
>150	21.1	26.9	27.8	27.9	27.9	28.0	28.0	28.0
>0	21.1	27.0	28.0	28.0	28.1	28.2	28.2	28.2
TOTAL	1123	1434	1486	1489	1492	1497	1497	1499

TOTAL NUMBER OF OBS: 5314

PCT FREQ NH <5/8: 71.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.8	12.1	18.3	16.4	11.6	6.9	7.1	5.6	9.0	.1	5624

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1864-1973

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TABLE 8

AREA 0010 MONROVIA
4.1N 11.5W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	*	*	.0	*	.0	.0	.1	
	NO PCP	.0	.0	*	*	.0	.0	*	.0	.0	.0	.1	
	TOT %	.0	*	*	*	*	*	*	*	.0	.0	.1	
1/2<1	PCP	*	.0	.0	*	*	.0	*	*	.0	.0	.1	
	NO PCP	.0	*	.1	.1	.1	*	.1	.1	.0	.0	.5	
	TOT %	*	*	.1	.1	.1	*	.1	.1	.0	.0	.5	
1<2	PCP	.0	*	.0	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	.1	.0	*	.1	*	.1	.1	.0	*	.4	
	TOT %	*	.1	.0	*	.1	.1	.1	.1	.0	*	.5	
2<5	PCP	*	*	*	*	.1	.2	*	*	.0	.0	.5	
	NO PCP	.1	.1	*	*	.1	.1	.1	.2	.0	.2	.9	
	TOT %	.1	.1	.1	.1	.2	.2	.2	.2	.0	.2	1.4	
5<10	PCP	.1	.2	.2	.4	.8	.5	.5	.2	.0	.1	2.9	
	NO PCP	1.4	.7	.4	1.9	3.6	2.5	2.6	3.4	.0	1.4	17.9	
	TOT %	1.5	.8	.6	2.3	4.4	2.9	3.2	3.6	.0	1.4	20.8	
10+	PCP	.1	.1	.1	.3	.7	.4	.3	.3	.0	.1	2.4	
	NO PCP	5.1	2.1	1.5	7.2	16.2	14.2	11.2	10.2	.0	6.5	74.2	
	TOT %	5.2	2.2	1.6	7.5	17.0	14.6	11.6	10.5	.0	6.6	76.7	
TOT OBS		5990											
TOT PCT		6.9	3.3	2.4	10.0	21.7	17.8	15.1	14.5	.0	8.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	
	4-10	.0	.0	*	*	*	*	.0	*	.0	*	.1	
	11-21	.0	.0	*	*	*	*	.0	.0	.0	*	*	
	22+	.0	*	*	*	.0	.0	.0	.0	.0	*	*	
	TOT %	.0	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	*	*	.1	.1	*	.1	.1	.0	.0	.4	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.1	.1	.1	*	.1	.1	.0	.0	.4	
1<2	0-3	*	*	.0	.0	.1	.0	*	*	.0	*	.2	
	4-10	*	*	.0	*	.1	.1	.1	.1	.0	.0	.3	
	11-21	*	*	.0	*	*	*	.0	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.0	*	.1	.1	.1	.1	.0	*	.5	
2<5	0-3	*	*	*	.0	*	*	*	.1	.0	.2	.4	
	4-10	.1	*	*	*	.1	.2	.1	.2	.0	.0	.8	
	11-21	*	*	*	*	*	.1	*	*	.0	.0	.3	
	22+	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
	TOT %	.2	.1	.1	.1	.2	.3	.2	.3	.0	.2	1.6	
5<10	0-3	.3	.2	.1	.3	.8	.4	.6	.5	.0	1.4	4.6	
	4-10	1.0	.4	.3	1.3	2.7	2.2	2.1	2.6	.0		12.5	
	11-21	.2	.1	.1	.4	.5	.3	.2	.3	.0		2.1	
	22+	.0	*	*	*	.0	.0	*	*	.0		.1	
	TOT %	1.4	.8	.6	2.0	4.0	2.8	2.9	3.4	.0	1.4	19.3	
10+	0-3	1.5	.6	.4	1.0	2.5	2.2	2.0	2.0	.0	6.8	19.1	
	4-10	3.5	1.7	1.0	5.3	12.5	11.5	8.9	8.2	.0		52.5	
	11-21	.3	.2	.1	1.0	1.9	1.3	.7	.8	.0		6.4	
	22+	.0	*	*	.0	*	*	.0	*	.0		.1	
	TOT %	5.3	2.4	1.6	7.3	16.9	15.1	11.6	11.0	.0	6.8	78.0	
TOT OBS		7643											
TOT PCT		6.9	3.4	2.4	9.6	21.3	18.3	14.8	14.9	.0	8.4	100.0	

PERIOD: (PRIMARY) 1923-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.1	.7	4.3	8.2	5.0	1.9	.3	.7	1.5	23.0	77.0	1320
06009	.3	.1	1.0	5.2	11.1	6.3	2.2	.5	.2	1.3	28.2	71.8	1339
12015	.1	.0	.7	5.1	10.6	8.3	3.4	.9	.7	1.4	31.1	68.9	1476
18021	.1	.0	.5	4.5	9.3	6.8	2.6	.7	.9	1.0	26.5	73.5	1374
TOT PCT	11 .2	2 *	40 .7	264 4.8	540 9.8	365 6.6	141 2.6	34 .6	35 .6	72 1.3	1504 27.3	4005 72.7	5509 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.7	.5	1.8	18.6	78.2	1902
06009	.1	.4	.5	1.8	23.5	73.6	2238
12015	.2	.3	.4	1.6	16.5	81.1	1964
18021	.2	.5	.7	.9	17.6	78.1	2252
TOT PCT	14 .2	41 .5	44 .5	128 1.5	1646 19.7	6503 77.6	8376 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	1.2	6.6	17.8	75.6	1256
06009	.3	1.6	8.3	21.8	69.9	1279
12015	.1	1.0	7.5	24.6	67.9	1442
18021	.1	.7	6.1	21.7	72.3	1337
TOT PCT	12 .2	60 1.1	378 7.1	1148 21.6	3788 71.3	5314 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	*	.3	.2	*	.0	30	.6
85/89	.0	.0	.0	.1	1.4	7.5	1.5	.2	539	10.7
80/84	.0	.0	*	.1	1.3	26.0	41.9	6.1	3800	75.4
75/79	.0	.0	.0	*	1.3	6.7	4.8	*	647	12.8
70/74	.0	.0	.0	.0	.0	*	*	.4	21	.4
TOTAL	0	0	4	13	150	1766	2525	579	5037	100.0
PCT	.0	.0	.1	.3	3.0	35.1	50.1	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.2	.1	.1	.1	.0	.1
.6	.2	.2	1.5	2.9	1.8	1.4	1.0	.0	1.2
4.6	2.0	1.3	7.3	17.2	14.9	11.4	10.4	.0	6.3
1.5	1.1	.5	1.0	1.7	2.0	2.0	2.0	.0	1.0
*	.1	.1	.1	*	*	.1	*	.0	.1
6.8	3.4	2.1	9.9	22.0	18.7	15.0	13.4	.0	8.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	84	83	81	77	75	69	80.9	2329
06009	91	85	83	81	77	74	69	80.5	3032
12015	92	90	88	83	78	75	72	83.0	2334
18021	93	89	86	82	78	76	69	82.3	3063
TOT	93	89	86	82	77	75	69	81.6	10758

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.2	23.3	60.6	14.7	83	1382
06009	.0	.2	1.1	20.1	62.7	15.9	84	1420
12015	.0	.5	6.7	48.5	36.5	7.8	79	1456
18021	.0	.4	3.1	47.2	40.2	9.2	80	1422
TOT	0	18	174	1985	2829	674	82	5680

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1864-1973

MARCH

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	*	*	4	.0	.1
11/13	.0	.0	.0	.0	*	*	3	.0	*
9/10	.0	*	*	.1	.1	*	13	*	.2
7/8	.0	*	*	.2	.2	.1	30	*	.5
6	.0	.0	*	.1	.3	.2	40	*	.6
5	.0	*	.1	.4	.4	.3	73	*	1.2
4	.0	.0	.1	.6	.9	.2	111	.0	1.8
3	.0	.0	.1	.9	1.1	.1	137	*	2.2
2	.0	*	.4	2.5	1.9	*	301	*	4.9
1	.0	*	1.2	5.3	2.2	*	532	.1	8.6
0	.0	*	2.2	11.5	1.8	*	950	.2	15.4
-1	.0	.1	4.0	17.4	1.1	.0	1378	.3	22.3
-2	*	*	4.7	13.2	.3	.0	1118	.2	18.1
-3	.0	.1	4.4	5.9	.1	.0	645	*	10.5
-4	.0	.1	2.9	2.4	*	.0	328	*	5.3
-5	*	.2	1.8	1.4	*	.0	214	*	3.5
-6	.0	.3	1.0	.4	.0	.0	104	.0	1.7
-7/-8	.0	.5	.8	.3	.0	.0	94	.0	1.5
-9/-10	.0	.2	.1	*	.0	.0	20	*	.3
-11/-13	*	.1	*	.0	.0	.0	9	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	4	*	*
TOTAL	8		1460		646		6109	57	6052
PCT	.1	1.7	23.9	62.6	10.6	1.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.3	*	.0	.0	.0	2.3	.4	.6	*	.0	.0	.0	1.0
1-2	.7	3.2	.3	.0	.0	.0	4.7	.2	1.5	.2	.0	.0	.0	1.9
3-4	.0	.0	.3	.0	.0	.0	.9	.0	.2	.1	*	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	5.1	.7	.0	.0	.0	7.5	.5	2.4	.2	*	.0	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	.8
1-2	.2	.6	.1	.0	.0	.0	.8	.5	3.6	.4	.0	.0	.0	4.5
3-4	.0	.2	.2	*	.0	.0	.4	.1	1.0	.5	*	.0	.0	1.6
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.4	*	.0	.0	1.8	1.0	5.0	1.0	*	.0	.0	7.1

PERIOD: (OVER-ALL) 1963-1973

MARCH
TABLE 18 (CONT)

AREA 0010 MONROVIA
4.1N 11.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	2.4	.1	.0	.0	.0	4.0	1.3	2.2	.0	.0	.0	.0	3.6
1-2	1.1	9.7	.7	.0	.0	.0	11.5	.8	8.9	.6	.0	.0	.0	10.2
3-4	*	2.7	1.0	.0	.0	.0	3.8	.0	2.4	.9	.0	.0	.0	3.3
5-6	.0	.4	.3	.0	.0	.0	.7	.0	.3	.4	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	15.2	2.1	.0	.0	.0	20.0	2.1	13.9	2.0	*	.0	.0	18.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.4	2.3	.0	.0	.0	.0	3.6	1.0	2.8	*	.0	.0	.0	3.8	
1-2	.7	8.1	.7	.0	.0	.0	9.4	.9	7.0	.7	.0	.0	.0	8.6	
3-4	.1	2.1	.6	.0	.0	.0	2.8	.1	2.0	.6	.0	.0	.0	2.6	
5-6	.0	.1	.2	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.3	
7	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	12.6	1.4	.0	.0	.0	16.1	2.0	11.8	1.6	.0	.0	.0	15.4	89.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	20.9	12.1	.2	.0	.0	.0	33.1	
1-2	6.2	40.2	3.3	.0	.0	.0	49.7	
3-4	.5	10.3	3.8	.1	.0	.0	14.7	
5-6	.0	.9	1.2	.0	.0	.0	2.1	
7	.0	.1	.1	.1	.0	.0	.2	
8-9	.0	*	.1	.0	.0	.0	.1	
10-11	.0	*	.0	.0	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.6	63.7	8.6	.1	.0	.0	100.0	3216

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.6	18.5	11.9	2.9	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1567	2
6-7	*	3.3	7.9	4.7	1.4	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	721	4
8-9	.0	1.6	2.7	2.1	.7	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	300	4
10-11	.0	.0	1.6	1.3	1.4	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	4
12-13	.0	.0	.0	1.9	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
>13	.0	.0	.0	.0	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
INDET	12.0	8.1	4.7	2.0	.6	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1119	2
TOTAL	673	1335	1233	563	184	40	15	2	2	1	0	0	0	0	0	0	0	0	0	0	4048	3
PCT	10.6	33.0	30.5	13.9	4.5	1.0	.4	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1868-1973

APRIL

AREA 0010 MUNROVIA
4.1N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WJ PCPN	FGG WJ PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG
N	6.1	1.4	.2	.0	.0	.0	.0	8.2	3.3	8.9	.4	.0	2.0	.0	79.8
NE	14.7	0.6	2.2	.0	.0	.0	.5	23.3	1.6	12.3	3.7	.0	1.0	.0	60.8
E	10.6	3.3	1.5	.0	.0	.0	.0	17.4	6.5	9.2	.6	.0	.6	.0	66.3
SE	4.9	4.6	.3	.0	.0	.0	.0	9.8	4.9	7.0	.1	.0	.2	.0	79.5
S	4.0	4.4	.5	.0	.0	.0	.0	8.9	5.8	8.4	.0	.0	.2	.0	77.6
SW	3.8	4.8	1.3	.0	.0	.0	.0	9.9	5.0	9.0	.2	.0	.3	.0	76.7
W	3.0	2.2	.0	.0	.0	.0	.0	5.2	3.8	11.4	.5	.0	.6	.0	79.9
NW	3.6	2.6	.4	.0	.0	.0	.0	6.5	3.2	9.1	.3	.0	1.2	.2	80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	1.0	.0	.0	.0	.0	.0	2.9	3.4	10.1	.7	.0	1.3	.0	81.8
TOT PCT	4.4	3.7	.5	.0	.0	.0	*	8.6	4.4	9.2	.4	.0	.7	*	77.9
TOT OBS:	5980														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WJ PCPN	FGG WJ PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG
00003	3.0	3.0	.6	.0	.0	.0	.0	8.5	3.9	20.3	.4	.0	.6	.1	68.2
06009	6.0	4.3	.5	.0	.0	.0	.0	10.8	4.6	14.8	.7	.0	.6	.0	70.7
12015	4.0	3.2	.6	.0	.0	.0	.1	7.9	4.4	.9	.4	.0	.6	.0	86.2
18021	3.3	4.5	.6	.0	.0	.0	.0	6.5	4.2	3.3	.4	.0	.6	.1	84.0
TOT PCT	4.6	3.8	.6	.0	.0	.0	*	8.9	4.3	9.7	.5	.0	.6	*	77.4
TOT OBS:	6793														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WHD DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.7	4.1	.6	*	*	.0		6.3	6.0	4.7	5.9	6.2	8.0	8.9	7.9	5.5	4.6
NE	.8	2.3	.5	.1	*	.0		3.7	7.2	2.9	1.9	3.6	6.2	4.9	3.9	3.0	2.7
E	.9	2.6	.6	.1	*	.0		4.2	7.2	3.1	4.6	4.9	6.3	5.3	4.7	3.1	2.6
SE	1.9	9.2	2.1	.1	*	.0		13.2	7.3	14.0	7.6	12.3	12.5	14.3	7.0	13.6	13.0
S	3.0	14.3	2.4	.1	.0	.0		19.8	7.0	21.0	15.3	19.4	18.0	18.6	21.7	20.8	20.7
SW	2.7	12.5	1.4	*	.0	.0		16.6	6.6	14.6	17.9	17.0	15.9	14.0	9.9	18.0	20.1
W	2.5	10.7	1.4	.0	.0	.0		14.6	6.4	15.8	28.8	15.0	12.4	12.1	19.2	14.6	16.0
NW	2.3	9.9	1.1	*	.0	.0		13.4	6.4	12.4	11.3	12.7	13.0	14.6	19.6	14.1	11.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	9.6	6.7	8.9	7.6	7.3	6.2	7.5	8.3
TOT OBS	2320	6319	965	36	4	0	9644		6.2	1961	119	1930	750	2032	129	1943	780
TOT PCT	24.1	65.5	10.0	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.2	2.0	.1	*	.0		6.3	6.0	4.8	6.7	8.8	5.3	
NE	2.1	1.4	.2	*	.0		3.7	7.2	2.8	4.3	4.9	2.9	
E	2.4	1.5	.2	*	.0		4.2	7.2	3.2	5.3	5.2	2.9	
SE	6.7	6.2	.3	*	.0		13.2	7.3	13.6	12.4	13.6	13.4	
S	10.5	9.0	.4	*	.0		19.8	7.0	20.6	19.0	18.8	20.7	
SW	9.4	7.0	.2	*	.0		16.6	6.6	16.7	16.7	13.7	18.6	
W	8.8	5.7	.1	.0	.0		14.6	6.4	16.5	14.3	12.6	15.0	
NW	8.0	5.2	.2	*	.0		13.4	6.4	12.3	12.8	14.9	13.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	8.2						8.2	.0	9.4	8.5	7.3	7.7	
TOT OBS	5812	3658	163	11	0	9444		6.2	2080	2680	2161	2723	
TOT PCT	60.3	37.9	1.7	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1868-1973

APRIL

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	9.4	15.6	64.6	9.8	.5	*		.0	6.1	100.0	2080
0600Z	8.5	16.8	65.1	9.2	.3	*		.0	6.0	100.0	2680
1201Z	7.3	15.0	65.3	11.4	.3	*		.0	6.3	100.0	2161
1802Z	7.7	15.4	66.9	9.8	.4	*		.0	6.2	100.0	2723
TOT	791	1529	6319	98.4	36	4		0	6.2		9644
PCT	8.2	15.9	65.9	10.0	.4	*		.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN COVER
N	.9	1.3	2.1	1.3	5.1	
NE	.5	.3	1.1	1.2	5.8	
E	.5	.6	1.3	1.6	5.8	
SE	2.2	3.2	5.6	2.6	5.0	
S	4.1	5.6	8.6	3.6	4.8	
SW	2.8	3.8	5.9	3.1	5.0	
W	3.4	3.4	5.1	2.7	4.7	
NW	3.4	2.6	5.2	2.7	4.7	
VAR	.0	.0	.0	.0	.0	
CALM	2.2	2.0	2.3	1.1	4.1	
TOT OBS	977	1114	1813	971	4875	4.9
TOT PCT	20.0	22.9	37.2	19.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
N	.9	1.3	2.1	1.3	5.1		.0	.0	.3	.8	.5	.2	.1	.1	.1	.1	3.5	
NE	.5	.3	1.1	1.2	5.8		.0	.1	.5	.6	.2	.1	.1	.1	.1	.1	1.5	
E	.5	.6	1.3	1.6	5.8		.1	.1	.4	.7	.4	.1	.1	.1	.1	.1	2.0	
SE	2.2	3.2	5.6	2.6	5.0		.0	.2	.9	1.5	1.0	.3	.1	.1	.1	.1	9.2	
S	4.1	5.6	8.6	3.6	4.8		.1	.2	1.3	2.8	1.7	.4	.2	.1	.1	.1	14.9	
SW	2.8	3.8	5.9	3.1	5.0		.0	.2	1.0	1.6	1.0	.4	.2	.1	.1	.1	10.9	
W	3.4	3.4	5.1	2.7	4.7		.0	.2	.8	1.5	.9	.4	.1	.1	.1	.1	10.4	
NW	3.4	2.6	5.2	2.7	4.7		.0	.2	1.0	1.6	1.1	.4	.1	.1	.1	.1	9.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2	2.0	2.3	1.1	4.1		.0	.1	.3	.6	.2	.1	.1	.1	.1	.1	5.7	
TOT OBS	977	1114	1813	971	4875	4.9	11	11	61	318	565	358	117	53	28	75	3278	4875
TOT PCT	20.0	22.9	37.2	19.9	100.0		.2	.2	1.3	6.5	11.6	7.3	2.4	1.1	.6	1.5	67.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >5000	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >3500	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5
= OR >2000	10.3	12.6	12.9	13.0	13.0	13.0	13.0	13.0
= OR >1000	20.0	24.0	24.5	24.6	24.7	24.7	24.7	24.7
= OR >600	24.8	29.9	30.9	31.0	31.1	31.1	31.1	31.1
= OR >300	25.5	31.0	32.0	32.2	32.3	32.3	32.3	32.3
= OR >150	25.6	31.2	32.2	32.4	32.5	32.5	32.6	32.6
= OR >0	25.7	31.3	32.4	32.6	32.7	32.7	32.8	32.8
TOTAL	1398	1701	1759	1773	1777	1780	1781	1781

TOTAL NUMBER OF OBS: 5437

PCT FREQ NH <5/8: 67.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.9	11.0	17.7	16.8	13.2	7.8	7.6	6.7	11.0	.1	5736

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1858-1973

APRIL

AREA 0010 MONROVIA
4.1M 11.5M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	*	.0	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	*	*	.0	*	.0	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
	NO PCP	*	*	*	.0	.0	*	*	*	.0	.0	.1	
	TOT %	*	*	*	.0	*	*	*	*	.0	.0	.2	
1<2	PCP	*	*	*	.0	*	*	*	.1	.0	.0	.2	
	NO PCP	*	*	*	*	.0	.0	*	*	.0	.1	.2	
	TOT %	.1	*	*	*	*	*	.1	.1	.0	.1	.4	
2<5	PCP	.1	.1	.1	.1	.1	.1	*	.1	.0	.0	.7	
	NO PCP	*	*	*	*	.1	.1	.2	.1	.0	.1	.8	
	TOT %	.1	.1	.1	.2	.2	.3	.2	.2	.0	.1	1.5	
5<10	PCP	.2	.4	.3	.7	1.0	.6	.3	.3	.0	.1	3.9	
	NO PCP	1.2	.5	.6	1.6	2.5	2.3	2.0	1.8	.0	.7	13.2	
	TOT %	1.4	1.0	.9	2.3	3.4	2.9	2.4	2.0	.0	.7	17.1	
10+	PCP	.1	.3	.3	.5	.8	.8	.4	.5	.0	.2	3.7	
	NO PCP	4.5	1.9	2.6	10.6	16.9	11.9	11.5	10.8	.0	6.4	77.0	
	TOT %	4.6	2.2	2.9	11.0	17.7	12.7	11.9	11.3	.0	6.5	80.7	
TOT OBS													5971
TOT PCT													6.3 3.4 3.9 13.6 21.3 15.9 14.5 13.7 .0 7.5 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	.0	.0	*	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	*	*	*	*	.0	.0	.0	.0	.0	.0	*	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	*	*	.0	*	.0	.0	.1	
1/2<1	0-3	*	.0	.0	.0	*	.0	*	*	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	11-21	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.0	*	*	*	*	.0	.0	.2	
1<2	0-3	*	.0	*	*	.0	.0	*	*	.0	.1	.1	
	4-10	*	.0	.0	*	*	*	*	*	.0	.1	.1	
	11-21	*	*	*	*	.0	*	*	*	.0	.1	.1	
	22+	*	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	*	*	*	*	*	*	.1	.0	.1	.4	
2<5	0-3	.0	.0	*	*	.1	*	.0	*	.0	.1	.3	
	4-10	.1	.1	*	.1	.1	.2	.2	.1	.0	.0	1.0	
	11-21	*	.1	*	.1	*	.1	*	*	.0	.4	.4	
	22+	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.1	.1	.1	.2	.2	.3	.3	.2	.0	.1	1.7	
5<10	0-3	.3	.1	.1	.3	.6	.5	.5	.3	.0	.9	3.7	
	4-10	.9	.6	.5	1.4	2.2	2.0	1.7	1.4	.0	.0	10.7	
	11-21	.2	.2	.2	.4	.3	.3	.2	.2	.0	.0	2.0	
	22+	.0	*	*	.1	*	.0	.0	*	.0	.0	.1	
	TOT %	1.3	1.0	.9	2.1	3.0	2.8	2.5	2.0	.0	.9	16.6	
10+	0-3	1.3	.6	.7	1.5	2.5	2.0	1.9	1.7	.0	7.3	19.4	
	4-10	2.9	1.6	2.0	7.8	12.5	10.4	8.9	8.2	.0	.0	54.2	
	11-21	.3	.2	.3	1.6	2.1	.9	1.1	.8	.0	.0	7.5	
	22+	*	*	*	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	4.5	2.4	2.9	10.9	17.1	13.3	11.9	10.8	.0	7.3	81.1	
TOT OBS													7657
TOT PCT													6.1 3.6 4.0 13.2 20.4 16.5 14.7 13.1 .0 8.4 100.0

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1868-1973

APRIL

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 799	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.2	.5	.8	6.3	9.3	6.0	2.6	.5	.5	1.1	27.9	72.1	1317
06009	.3	.1	1.2	6.7	12.7	8.6	2.7	1.2	.6	2.1	35.9	64.1	1391
12015	.2	.1	1.6	6.1	12.4	8.2	2.2	1.1	.7	1.4	33.9	66.1	1521
18021	.1	.2	1.1	5.8	10.9	5.9	1.9	1.1	.4	1.6	28.9	71.1	1380
TOT PCT	11 .2	12 .2	66 1.2	349 6.2	639 11.4	404 7.2	130 2.3	55 1.0	30 .5	87 1.6	1783 31.8	3826 68.2	5609 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.2	.2	1.7	16.9	81.0	1923
06009	.1	.3	.4	1.8	20.5	76.8	2296
12015	.2	.2	.3	1.6	12.7	84.9	2020
18021	.*	.2	.6	1.3	17.0	80.8	2234
TOT PCT	9 .1	20 .2	35 .4	136 1.6	1432 16.9	8841 80.7	8473 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND>+	NH < 5/8 AND 5+	TOTAL OBS
00003	.2	1.7	9.3	20.1	70.7	1261
06009	.3	1.6	9.8	27.8	62.3	1354
12015	.2	2.2	9.4	25.7	64.9	1484
18021	.1	1.4	8.3	21.8	69.9	1338
TOT PCT	11 .2	94 1.7	501 9.2	1303 24.0	3633 66.8	5437 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.*	.3	.1	.*	.0	19	.4
85/89	.0	.0	.0	.*	1.9	8.4	2.0	.4	655	12.9
80/84	.0	.0	.0	.1	1.9	27.6	39.9	.7	3882	76.2
75/79	.0	.0	.0	.0	.0	1.2	4.6	.5	524	10.3
70/74	.0	.0	.0	.0	.0	.*	.*	.2	14	.3
TOTAL	0	0	0	7	209	1903	2374	601	5094	100.0
PCT	.0	.0	.0	.1	4.1	37.4	46.6	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.*	.*	.*	.*	.1	.0	.*	.*	.0	.1
.8	.3	.4	1.9	2.9	1.9	1.7	1.6	.0	1.3
4.1	1.8	2.4	10.3	17.1	12.6	11.7	10.3	.0	5.9
1.2	1.1	1.0	1.3	1.7	1.0	1.3	1.5	.0	.4
.*	.1	.*	.*	.0	.*	.*	.*	.0	.*
6.2	3.3	3.8	13.6	21.8	15.5	14.7	13.5	.0	7.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	85	84	82	78	75	70	81.3	2284
06009	90	86	84	81	77	75	70	80.9	2909
12015	93	90	88	83	78	76	72	83.3	2306
18021	92	89	86	82	78	75	71	82.5	2865
TOT	93	89	86	82	78	75	70	82.0	10364

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	1.1	26.4	59.1	13.3	83	1407
06009	.0	.1	.7	25.1	57.2	16.9	84	1469
12015	.0	.3	9.4	50.8	31.7	7.9	78	1486
18021	.0	.1	5.0	45.1	39.6	10.1	80	1409
TOT	0	7	236	2132	2701	695	81	5771

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1888-1973

APRIL

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WQ FOG
11/13	.0	.0	.0	.0	*	*	.0	3	.0	*
9/10	.0	.0	.0	.1	.0	.1	.0	9	.0	.1
7/8	.0	.0	*	.2	.1	.2	.0	33	.0	.5
6	.0	.0	.1	.1	.1	*	*	23	.0	.4
5	.0	.0	*	.3	.3	.3	*	61	.0	1.0
4	.0	.0	*	.4	.7	.2	.0	80	*	1.3
3	.0	.0	*	.5	1.4	.1	.0	127	.0	2.1
2	.0	*	.1	1.5	2.0	.1	.0	226	*	3.7
1	.0	*	.4	4.0	2.9	*	.0	449	*	7.3
0	.0	*	1.1	9.8	2.7	.0	.0	823	.1	13.4
-1	.0	*	1.5	17.3	1.6	.0	.0	1239	.1	20.3
-2	.0	*	2.6	15.9	.5	.0	.0	1162	.1	19.1
-3	.0	*	3.6	8.3	.2	.0	.0	739	*	12.1
-4	.0	.1	3.3	4.2	.1	.0	.0	465	*	7.6
-5	.0	.1	2.5	2.2	*	.0	.0	297	.0	4.9
-6	.0	.3	1.3	.6	.0	.0	.0	130	*	2.1
-7/-8	.0	.5	1.2	.7	.0	.0	.0	144	.0	2.4
-9/-10	.0	.3	.3	.1	.0	.0	.0	47	.0	.8
-11/-13	*	.1	.1	.0	.0	.0	.0	15	.0	.2
-14/-16	*	*	.0	.0	.0	.0	.0	3	.0	*
TOTAL	*	*	1103	770	80	2	*	6075	31	6044
PCT	.1	1.7	18.2	66.1	12.7	1.3	*	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.1	.1	.0	.0	.0	1.9	.5	.5	.0	.0	.0	.0	.9
1-2	.4	2.1	.3	.0	.0	.0	2.9	*	1.0	.2	.0	.0	.0	1.3
3-4	.1	.6	.2	.0	.0	.0	.9	*	.4	.3	.0	.0	.0	.7
5-6	.0	.1	.1	.0	.0	.0	.2	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	3.9	.8	.0	*	.0	5.9	.5	2.0	.5	.0	.0	.0	3.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	.5	1.5	.1	.0	.0	.0	2.1
1-2	.2	1.3	.2	.0	.0	.0	1.7	.7	5.8	.7	.0	.0	.0	7.1
3-4	.0	.5	.3	.0	.0	.0	.8	.0	1.4	1.0	.0	.0	.0	2.4
5-6	.0	*	.1	.0	.0	.0	.7	.0	.2	.4	.0	.0	.0	.6
7	.0	*	*	*	.0	.0	.1	.0	*	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.7	.8	*	*	.0	4.1	1.2	9.0	2.1	.0	.0	.0	12.2

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	2.2	*	.0	.0	.0		3.1	1.0	2.2	.1	.0	.0	.0		3.3
1-2	1.4	10.0	.9	.0	.0	.0		12.3	1.1	8.2	.5	.0	.0	.0		9.9
3-4	.1	2.7	1.2	.0	.0	.0		3.0	*	1.9	.8	.0	.0	.0		2.7
5-6	.0	.4	.2	.0	.0	.0		.5	.1	.1	.1	.0	.0	.0		.3
7	.0	*	.0	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		*	.0	.0	*	.0	.0	.0		*
10-11	.0	.0	.0	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.4	15.3	2.3	.0	.0	.0		20.0	2.2	12.5	1.5	.0	.0	.0		16.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.2	2.2	.0	.0	.0	.0		3.3	1.3	2.1	*	.0	.0	.0		3.4	
1-2	.9	7.8	.7	.0	.0	.0		9.4	.7	7.2	.5	.0	.0	.0		8.4	
3-4	.0	1.4	.6	.0	.0	.0		2.0	*	1.7	.6	*	.0	.0		2.4	
5-6	.0	*	.3	.0	.0	.0		.3	.0	.3	.1	.0	.0	.0		.5	
7	.0	.0	*	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		*	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	2.1	11.4	1.0	.0	.0	.0		15.1	2.0	11.4	1.3	*	.0	.0		14.6	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.7	12.5	.3	.0	.0	.0	30.4	
1-2	6.3	41.7	3.9	.0	.0	.0	51.6	
3-4	.3	10.0	4.6	*	.0	.0	15.0	
5-6	.1	1.1	1.2	.0	.0	.0	2.4	
7	.0	.1	.1	*	*	.0	.3	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	*	.0	.0	.0	*	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.3	65.4	10.1	.1	.1	.0	100.0	3290

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.2	17.0	12.1	3.8	1.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1589	3
6-7	*	3.2	9.7	6.1	1.8	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	889	4
8-9	.0	.7	3.2	2.5	1.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	4
10-11	.0	1.1	1.4	1.0	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	4
12-13	.0	.0	1.9	.6	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
>13	.0	.0	.0	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
INDET	9.6	5.8	5.7	1.9	.6	.1	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	985	2
TOTAL	572	1158	1406	684	255	53	75	2	0	0	0	0	0	0	0	0	0	0	0	0	4155	3
PCT	13.8	27.9	33.8	16.5	6.1	1.3	.6	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1869-1973

MAY

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.9	4.8	1.4	.0	.0	.0	.0	14.2	4.9	9.2	.0	.0	.9	.0	72.7
NE	14.9	7.7	1.2	.0	.0	.0	.0	23.8	6.7	7.3	.5	.0	.0	.0	65.6
E	10.8	5.8	1.8	.0	.0	.0	.0	18.0	6.3	7.5	1.1	.0	.2	.0	69.5
SE	6.2	4.9	.4	.0	.0	.0	.1	11.6	5.7	5.6	.5	.0	.2	.0	77.6
S	5.1	5.7	1.2	.0	.0	.0	*	11.9	6.3	6.4	.4	.0	.1	.0	76.0
SW	7.0	5.8	.7	.0	.0	.0	*	13.5	7.0	8.8	.3	.0	.1	.0	70.8
W	7.6	5.6	.8	.0	.0	.0	.0	14.0	7.8	9.3	.2	.0	.8	.0	69.0
NW	6.3	5.0	1.0	.0	.0	.0	.0	13.0	3.0	7.8	.2	.0	.3	.0	76.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	2.0	.6	.0	.0	.0	.0	5.5	3.9	13.8	1.0	.0	.3	.0	76.5
TOT PCT	6.4	5.3	.9	.0	.0	.0	*	12.7	6.1	7.4	.4	.0	.2	.0	74.5
TOT OBS:	6492														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	5.9	5.5	1.0	.0	.0	.0	.0	12.2	5.1	16.1	.2	.0	.4	.1	67.5
0600	8.3	7.5	1.4	.0	.0	.0	.0	17.4	6.2	11.8	.7	.0	.2	.0	66.0
1200	6.4	4.7	1.0	.0	.0	.0	.1	12.2	6.4	.7	.4	.0	.1	.0	80.4
1800	5.7	4.7	.8	.0	.0	.0	.1	11.2	5.5	3.2	.4	.0	.2	.0	80.6
TOT PCT TOT OBS:	6.6 7167	5.6	1.1	.0	.0	.0	*	13.2	5.8	7.7	.4	.0	.2	*	73.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.9	2.0	.3	*	.0	.0		3.1	6.0		3.0	2.4	2.9	4.3	4.3	1.0	2.5	2.1
NE	.7	1.7	.3	*	.0	.0		2.7	6.7		1.6	5.4	2.4	4.0	4.2	2.3	1.7	
E	.7	2.7	.6	.1	.0	.0		4.1	7.1		3.3	3.7	4.3	5.9	5.0	4.5	3.5	2.9
SE	1.7	14.2	6.9	.1	.0	.0		22.8	9.1		23.2	18.1	22.3	20.1	25.4	17.7	23.2	19.5
S	2.8	19.8	8.1	.2	.0	.0		30.9	8.6		31.2	34.1	31.6	28.3	29.9	36.2	31.5	30.2
SW	1.9	12.5	2.7	.1	.0	.0		17.2	7.6		17.2	19.6	16.5	16.8	14.0	19.7	18.6	22.9
W	1.3	6.0	1.0	*	.0	.0		8.3	6.7		8.6	8.6	7.8	9.2	6.7	8.5	8.4	11.6
NW	1.0	3.8	.6	*	.0	.0		5.5	6.5		5.1	3.0	5.1	6.6	5.4	3.7	5.9	5.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0		6.6	5.2	7.1	4.8	5.0	4.7	4.1	3.4
TOT OBS	1624	6239	2048	59	0	0	9970		7.6		1974	116	1942	749	2127	150	2085	827
TOT PCT	16.3	62.6	20.5	.4	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.1	1.0	.1	.0	.0		3.1	6.0	3.0	3.3	4.1	2.4
NE	1.7	1.9	.1	.0	.0		2.7	6.7	1.8	2.9	4.2	2.1
E	2.4	1.5	.2	.0	.0		4.1	7.1	3.3	4.8	5.0	3.4
SE	7.0	14.5	1.2	.0	.0		22.8	9.1	22.9	21.7	24.9	22.2
S	10.6	18.8	1.4	.0	.0		30.9	8.6	31.3	30.7	30.3	31.1
SW	7.9	8.9	.5	.0	.0		17.2	7.6	17.3	16.6	14.4	19.8
W	4.8	3.5	.1	.0	.0		8.3	6.7	8.6	8.2	6.9	9.3
NW	3.4	2.0	.1	.0	.0		5.5	6.5	5.0	5.5	5.2	5.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	6.6	6.4	5.0	3.9
TOT OBS	4502	5089	370	9	0	9970		7.6	2090	2691	2277	2912
TOT PCT	45.2	51.0	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	WIND SPEED (KNOTS)	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	6.6	9.0	62.1	21.6	.7	.0	.0	.0	7.7	100.0	2090
00009	6.4	11.3	63.5	18.1	.7	.0	.0	.0	7.3	100.0	2691
12015	5.0	12.7	60.9	20.9	.5	.0	.0	.0	7.6	100.0	2277
18021	3.9	10.5	63.3	21.8	.5	.0	.0	.0	7.9	100.0	2912
TOT	536	1088	6239	2048	59	0	0	0	7.6		9970
PCT	5.4	10.9	62.6	20.5	.6	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.5	1.6	1.0		5.6
NE	.2	.3	1.3	1.0		6.3
E	.4	.8	1.3	1.3		5.7
SE	3.4	6.1	9.7	6.3		5.3
S	3.6	6.8	14.1	7.7		5.5
SW	1.5	2.9	6.4	4.4		5.7
W	.8	1.3	2.8	2.0		5.4
NW	.6	1.2	2.0	1.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	1.1	2.1	.9		4.7
TOT OBS	626	1068	2111	1314	5119	5.5
TOT PCT	12.2	20.9	41.2	25.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS<D	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	.6	.5	1.6	1.0	5.6	*	.0	.1	.4	.5	.5	.1	*	*	*	.1	1.9
NE	.2	.3	1.3	1.0	6.3	*	*	.1	.4	.5	.3	.1	*	*	*	*	1.3
E	.4	.8	1.3	1.3	5.7	*	.1	*	.3	1.0	.4	.1	.0	.0	*	*	2.0
SE	3.4	6.1	9.7	6.3	5.3	*	*	.3	1.9	3.9	2.4	.8	.2	.1	.1	15.6	
S	3.6	6.8	14.1	7.7	5.5	.1	*	.4	3.0	5.2	2.6	1.1	.5	.2	.2	19.0	
SW	1.5	2.9	6.4	4.4	5.7	.1	.0	.2	2.4	2.7	1.4	.6	.2	*	.2	8.4	
W	.8	1.3	2.8	2.0	5.4	.1	*	.1	.6	1.0	.7	.2	*	*	.0	.1	4.1
NW	.6	1.2	2.0	1.0	5.2	*	*	.3	.5	.6	.2	*	*	.0	.0	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	1.1	2.1	.9	4.7	*	*	.1	.4	.7	.4	.1	.1	*	.1	3.5	
TOT OBS	626	1068	2111	1314	5119	5.5	19	11	67	441	817	472	171	54	16	40	3011
TOT PCT	12.2	20.9	41.2	25.7	100.0		.4	.2	1.3	8.6	16.0	9.2	3.3	1.1	.3	.8	58.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.8	2.1	2.2	2.2	2.2	2.2	2.2	2.2
= OR >3500	4.6	5.4	5.5	5.5	5.5	5.6	5.6	5.6
= OR >2000	12.4	14.2	14.6	14.7	14.7	14.7	14.7	14.7
= OR >1000	24.8	29.2	30.1	30.2	30.2	30.3	30.3	30.3
= OR >600	30.6	37.1	38.4	38.5	38.6	38.7	38.7	38.7
= OR >300	31.2	38.3	39.6	39.9	40.0	40.0	40.1	40.1
= OR >150	31.3	38.4	39.8	40.1	40.2	40.2	40.3	40.3
= OR >0	31.4	38.6	40.1	40.4	40.5	40.5	40.6	40.6
TOTAL	1750	2144	2237	2250	2246	2260	2264	2265

TOTAL NUMBER OF OBS: 5574

PCT FREQ NH <5/8: 59.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.3	8.8	16.1	17.7	12.8	8.5	9.9	7.8	15.0	.3	5908

PERIOD: (PRIMARY) 1924-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.2	
NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
TOT %	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	*	*	.0	.0	*	.0	.0	.1	
NO PCP	*	.0	*	*	.1	*	.0	*	.0	*	.2	
TOT %	*	*	.1	*	.1	*	.0	*	.0	*	.3	
1<2	PCP	.0	*	.0	.1	*	.0	*	.0	.0	.2	
NO PCP	.0	.0	*	*	.0	*	.0	.0	.0	.0	.1	
TOT %	.0	*	*	.2	.1	*	*	*	.0	.0	.3	
2<5	PCP	*	.1	.1	.2	.3	.1	*	.0	*	1.0	
NO PCP	*	*	*	.1	.1	.1	.1	.1	.0	*	.7	
TOT %	.1	.1	.2	.4	.4	.2	.2	.1	.0	.1	1.7	
5<10	PCP	.3	.4	.4	1.4	1.5	.9	.4	.0	.1	5.9	
NO PCP	.5	.5	.8	3.4	4.4	2.1	1.3	.8	.0	.4	14.2	
TOT %	.8	.9	1.2	4.9	5.9	3.0	1.8	1.2	.0	.4	20.1	
10+	PCP	.1	.2	.2	1.1	1.8	.9	.4	.2	.0	5.2	
NO PCP	2.6	1.8	2.7	18.6	23.5	10.7	4.8	3.5	.0	4.1	72.2	
TOT %	2.7	2.0	2.9	19.7	25.3	11.7	5.2	3.7	.0	4.2	77.5	
TOT OBS												6482
TOT PCT	3.6	3.1	4.3	25.2	31.8	15.0	7.2	5.0	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*
4-10	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2
11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*
22+	.0	*	*	.0	.0	.0	*	.0	.0	.0	.0	*
TOT %	.0	*	*	.1	.1	.1	*	.0	.0	.0	.0	.3
1/2<1	0-3	.0	.0	.0	.0	*	*	*	.0	.0	*	.1
4-10	*	.0	*	.0	*	*	*	*	.0	.0	*	.1
11-21	.0	*	*	*	*	.0	.0	*	.0	.0	*	.1
22+	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	*
TOT %	*	*	*	*	.1	.1	*	*	.0	*	.3	
1<2	0-3	.0	*	*	*	.0	*	*	.0	.0	.1	
4-10	*	*	.0	.1	.1	.1	.1	*	.0	.0	.3	
11-21	.0	*	.0	*	.0	*	.0	*	.0	.0	.1	
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	*	*	*	.1	.1	.1	.1	.1	.0	.0	.5	
2<5	0-3	*	*	*	*	.1	*	*	.0	.1	.4	
4-10	*	*	.1	.3	.2	.3	.1	*	.0	.1	1.1	
11-21	*	*	.1	.1	.1	.1	.0	.0	.0	.5		
22+	.0	.0	.0	.0	.0	.0	.0	*	.0	*		
TOT %	.1	.1	.2	.4	.4	.4	.2	.1	.0	.1	1.9	
5<10	0-3	.2	.1	.2	.3	.5	.4	.4	.2	.0	.6	2.9
4-10	.4	.5	.6	2.6	3.2	2.2	1.1	.7	.0	.0	11.1	
11-21	.2	.1	.2	1.3	1.6	.6	.3	.2	.0	.0	4.7	
22+	.0	*	*	.1	*	*	*	*	.0	.0	.2	
TOT %	.7	.7	1.1	4.3	5.4	3.2	1.8	1.1	.0	.6	18.9	
10+	0-3	.7	.5	.5	1.2	2.2	1.5	.9	.8	.0	4.7	13.0
4-10	1.6	1.2	2.1	12.3	16.6	9.2	4.3	2.7	.0	.0	50.1	
11-21	.1	.2	.3	5.6	6.2	1.6	.6	.3	.0	.0	14.9	
22+	*	.0	*	.1	.1	*	*	.0	.0	.0	.2	
TOT %	2.5	1.9	2.9	19.2	25.1	12.3	5.8	3.8	.0	4.7	78.2	
TOT OBS												7899
TOT PCT	3.3	2.8	4.2	24.1	31.1	16.1	7.9	5.1	.0	5.4	100.0	

PERIOD: (PRIMARY) 1924-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.7	.1	1.2	7.9	13.7	7.6	3.1	.7	.2	.7	36.0	64.0	1348
06009	.6	.4	1.5	9.6	16.0	8.9	3.5	1.2	.2	.8	44.7	55.3	1371
12015	.0	.0	1.3	7.7	15.7	9.7	3.6	1.2	.6	1.0	40.8	59.2	1576
18021	.1	.3	1.4	8.0	13.2	9.2	2.8	1.0	.1	.8	36.9	63.1	1443
TOT	19	12	76	474	871	511	188	98	17	47	2273	3465	5738
PCT	.3	.2	1.3	8.3	15.2	8.9	3.3	1.0	.3	.8	39.6	60.4	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.3	.2	1.5	19.1	74.5	1911
06009	.3	.4	.5	2.8	24.2	71.8	2215
12015	.2	.2	.5	1.7	14.8	82.7	2095
18021	.3	.3	.7	1.5	19.9	77.3	2358
TOT	26	25	41	160	1682	4645	8579
PCT	.3	.3	.5	1.9	19.6	77.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.8	2.5	11.5	26.0	62.5	1294
06009	.5	2.7	14.6	31.5	54.0	1340
12015	.0	1.4	10.3	31.4	58.3	1537
18021	.1	1.9	10.5	27.4	62.1	1403
TOT	19	117	650	1625	3299	5574
PCT	.3	2.1	11.7	29.2	59.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.1	.0	.0	16	.3
85/89	.0	.0	.0	.0	1.2	5.3	1.4	.2	453	8.2
80/84	.0	.0	.0	.1	1.8	29.2	36.6	5.0	4026	72.7
75/79	.0	.0	.0	.0	.1	1.6	9.5	7.0	1006	18.2
70/74	.0	.0	.0	.0	.0	.0	.1	.5	34	.6
TOTAL	0	0	0	6	180	2003	2636	710	3535	100.0
PCT	.0	.0	.0	.1	3.3	36.2	47.4	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.3	.2	.4	2.5	2.1	1.0	.7	.5	.0	.5
2.4	1.8	2.8	18.0	24.2	11.3	5.1	3.3	.0	3.8
.7	.9	1.1	4.7	5.5	2.8	1.2	.8	.0	.4
.0	.1	.0	.1	.1	.1	.0	.0	.0	.1
3.5	3.0	4.3	25.5	32.1	15.2	7.1	4.6	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	85	83	81	77	74	68	80.7	2260
06009	93	85	83	81	76	74	71	80.2	2865
12015	93	90	87	83	77	75	71	82.5	2387
18021	94	88	86	82	77	75	68	81.7	3039
TOT	94	88	85	81	77	74	68	81.3	10551

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.8	27.1	59.5	12.5	83	1446
06009	.0	.0	.9	25.7	53.9	19.5	84	1493
12015	.0	.3	7.3	50.0	32.3	10.1	79	1562
18021	.0	.1	3.6	40.2	46.4	9.7	81	1576
TOT	0	7	197	2190	2901	782	82	6077

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
14/16	.0	.0	.0	*	*	.0	.0	3	.0	*
11/13	.0	.0	.0	.1	.0	.0	*	6	.0	.1
9/10	.0	.0	*	*	.1	*	*	10	.0	.2
7/8	.0	.0	.1	.1	.1	.1	*	25	.0	.4
6	.0	.0	*	.1	*	.1	*	22	.0	.3
5	.0	.0	.1	.2	.3	.2	*	46	*	.7
4	.0	.0	*	.3	.6	.1	*	74	*	1.1
3	.0	.0	.1	.6	1.0	.2	.0	118	.0	1.9
2	.0	*	.3	1.6	1.3	.1	.0	201	.0	3.2
1	.0	*	.6	3.6	1.9	.1	.0	395	*	6.2
0	.0	.1	1.4	8.0	1.4	.0	.0	691	.1	10.8
-1	.0	.1	2.8	14.9	.7	.0	.0	1179	.1	18.4
-2	.0	.1	4.2	15.2	.3	.0	.0	1261	.1	19.7
-3	.0	*	6.1	8.2	.3	.0	.0	926	*	14.5
-4	.0	.1	4.9	3.0	*	.0	.0	515	.0	8.1
-5	.0	.4	4.2	2.1	*	.0	.0	426	*	6.7
-6	.0	.6	2.2	.6	.0	.0	.0	217	.0	3.4
-7/-8	.0	.6	1.6	.3	.0	.0	.0	162	*	2.5
-9/-10	*	.5	.5	.1	.0	.0	.0	67	.0	1.1
-11/-13	*	.2	*	*	.0	.0	.0	15	.0	.2
-14/-16	*	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	4		1842		514		6	6361	29	6332
PCT	.1	2.9	29.0	59.1	8.1	.8	.1	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	*	.0	.0	.0	1.1	.4	.3	*	.0	.0	.0	.7
1-2	.2	1.3	.2	.0	.0	.0	1.8	.3	1.5	.1	.0	.0	.0	1.9
3-4	*	.2	.1	.0	.0	.0	.4	.0	.4	.1	*	.0	.0	.5
5-6	.0	.0	*	.0	.0	.0	*	.0	*	.1	.0	.0	.0	.1
7	.0	*	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.2	.4	.0	.0	.0	3.4	.7	2.2	.3	.1	.0	.0	3.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.8	.8	2.0	.1	.0	.0	.0	2.9
1-2	.3	1.5	.2	.0	.0	.0	2.0	.5	8.3	1.4	.0	.0	.0	10.3
3-4	*	.5	.2	.0	.0	.0	.9	*	4.8	3.3	.0	.0	.0	8.2
5-6	.0	.1	.2	.0	.0	.0	.4	*	.7	2.2	.0	.0	.0	2.9
7	.0	.0	*	.0	.0	.0	*	.0	.2	.8	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.5	.7	.0	.0	.0	3.9	1.4	16.1	7.9	.0	.0	.0	25.4

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0010 MONROVIA
4.1N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.3	2.8	.1	.0	.0	.0	4.2		.9	1.8	*	.0	.0	.0	2.7	
1-2	.9	11.4	2.2	.0	.0	.0	14.4		.5	6.0	.6	.0	.0	.0	7.7	
3-4	.1	6.2	3.5	.0	.0	.0	9.8		*	2.1	.8	.0	.0	.0	2.9	
5-6	*	.7	2.1	.0	.0	.0	2.8		.0	.2	.4	.0	.0	.0	.6	
7	.0	.0	.2	.0	.0	.0	.3		.0	.0	*	*	.0	.0	*	
8-9	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	*	.0	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	21.2	8.1	.0	.0	.0	31.6		1.4	10.7	1.8	*	.0	.0	13.9	

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.6	1.1	.1	.0	.0	.0	1.8		.6	1.1	.0	.0	.0	.0	1.6		
1-2	.3	3.1	.3	.0	.0	.0	3.7		.1	2.0	.2	.0	.0	.0	2.3		
3-4	*	1.0	.3	.0	.0	.0	1.3		.1	.6	.3	.0	.0	.0	.9		
5-6	.0	.0	.2	.0	.0	.0	.2		.0	*	.1	.0	.0	.0	.1		
7	.0	.0	*	.0	.0	.0	*		.0	.0	*	*	.0	.0	.1		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.0	5.1	.8	.0	.0	.0	6.9		.8	3.6	.6	*	.0	.0	5.1	93.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.5	10.0	.3	.0	.0	.0	25.8	
1-2	4.0	34.1	4.9	.0	.0	.0	43.0	
3-4	.4	14.8	7.8	*	.0	.0	23.0	
5-6	*	1.7	4.9	.0	.0	.0	6.6	
7	*	.3	1.0	.1	.0	.0	1.4	
8-9	*	*	.1	.0	.0	.0	.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.9	60.9	19.1	.1	.0	.0	100.0	3404

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	11.2	14.4	6.0	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1626	3
6-7	.0	2.5	9.3	8.0	2.9	1.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1090	4
8-9	.0	.9	3.1	3.2	1.7	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	5
10-11	.0	1.1	1.1	1.5	.9	.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	5
12-13	.0	.0	1.7	.6	.5	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	5
>13	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
IMDET	6.3	5.2	4.4	2.9	1.0	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	877	2
TOTAL	407	910	1488	985	396	123	33	13	3	3	0	0	0	0	0	0	0	0	0	4361	4
PCT	9.3	20.9	34.1	22.6	9.1	2.8	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1853-1973

JUNE

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	10.6	10.1	8.0	.0	.0	.0	.0	28.6	3.5	15.6	1.5	.0	1.5	.0	51.3	
NE	14.5	2.3	7.8	.0	.0	.0	.0	21.5	6.6	9.4	.0	.0	.0	1.6	60.9	
E	11.0	4.0	.6	.0	.0	.0	.0	15.5	4.8	4.8	.0	.0	1.6	.0	75.6	
SE	2.3	3.0	.4	.0	.0	.0	.0	5.7	2.8	1.2	.4	.0	.4	.0	89.7	
S	4.6	4.7	.7	.0	.0	.0	.0	9.9	5.7	2.5	.1	.0	.2	.0	82.1	
SW	8.9	7.0	1.4	.0	.0	.0	.0	17.3	7.7	4.4	.4	.0	.3	.0	70.6	
W	13.3	7.5	1.9	.0	.0	.0	.0	22.7	6.9	8.1	.0	.0	.0	.0	62.7	
NW	7.0	9.0	2.2	.0	.0	.0	.0	18.8	8.4	6.5	1.4	.0	.3	.0	64.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4	4.0	.8	.0	.0	.0	.0	7.3	10.5	10.5	3.2	.0	.8	.0	67.7	
TOT PCT	5.1	4.7	.9	.0	.0	.0	.0	10.6	5.2	3.0	.3	.0	.3	*	81.0	
TOT OBS:	6888															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.9	4.7	1.0	.0	.0	.0	.0	9.5	5.5	6.1	.5	.0	.3	.0	.0	78.4
06009	7.3	5.2	1.0	.0	.0	.0	.0	13.2	4.9	5.2	.3	.0	.3	.1	.0	77.2
12015	5.8	4.6	1.2	.0	.0	.0	.0	11.4	5.5	.7	.3	.0	.3	.0	.0	82.0
18021	4.3	4.4	.7	.0	.0	.0	.0	9.4	5.0	.9	.2	.0	.3	.0	.0	84.7
TOT PCT TOT OBS:	5.3 7163	4.7	1.0	.0	.0	.0	.0	10.9	5.2	3.2	.3	.0	.3	*	.0	80.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	.4	.1	*	.0	.0	.7	7.6	.7	.7	.8	1.4	1.1	.0	.4	.1		
NE	.2	.6	.1	.0	.0	.0	.9	6.6	.9	.0	1.2	1.6	1.2	.0	.7	.1		
E	.2	1.7	.4	*	.0	.0	2.3	7.9	1.9	.5	2.4	3.2	3.2	3.4	1.5	1.4		
SE	.8	13.6	11.5	.3	.0	.0	26.3	10.6	27.8	24.8	25.6	21.5	27.5	20.3	28.5	21.1		
S	1.4	21.1	20.0	.7	.0	.0	43.2	10.9	40.3	43.8	41.9	43.7	44.5	52.7	44.9	43.6		
SW	.8	11.3	6.1	.2	.0	.0	18.4	9.6	19.1	21.6	19.2	20.1	15.2	16.6	17.5	24.0		
W	.4	3.4	.8	*	.0	.0	4.6	8.0	5.3	1.2	4.9	4.3	4.0	4.2	3.8	6.6		
NW	.2	1.3	.3	*	.0	.0	1.8	7.5	1.9	1.6	1.7	2.3	1.7	1.5	1.5	1.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	2.0	5.7	2.4	2.0	1.6	1.3	1.2	1.2		
TOT OBS	614	5520	4044	128	0	0	10306		10.0	2076	141	2060	799	2183	155	2067	825	
TOT PCT	6.0	53.6	39.2	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.3	.4	*	.0	.0	.7	7.6	.7	1.0	1.0	.3		
NE	.6	.3	*	.0	.0	.9	6.6	.9	1.3	1.1	.5		
E	1.0	1.1	.1	.0	.0	2.3	7.9	1.8	2.6	3.2	1.5		
SE	5.3	18.2	2.7	.1	.0	26.3	10.6	27.6	24.3	27.1	26.4		
S	7.9	29.8	5.5	*	.0	43.2	10.9	40.6	42.4	45.0	44.5		
SW	4.8	12.1	1.5	*	.0	18.4	9.6	19.3	19.4	15.3	19.3		
W	1.9	2.5	.1	*	.0	4.6	8.0	5.1	4.7	4.0	4.6		
NW	.8	.9	*	*	.0	1.8	7.5	1.9	1.9	1.7	1.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8					1.8	.0	2.3	2.3	1.6	1.2		
TOT OBS	2533	6721	1042	10	0	10306		2217	2859	2338	2892		
TOT PCT	24.6	65.2	10.1	.1	.0		100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.3	3.5	54.1	38.9	1.3	.0	.0	10.0	100.0	2217
06609	2.3	4.2	57.6	35.2	1.8	.0	.0	9.6	100.0	2859
12615	1.6	4.9	50.8	41.4	1.4	.0	.0	10.2	100.0	2338
18621	1.2	4.0	51.4	41.8	1.6	.0	.0	10.4	100.0	2892
TOT	187	427	5520	4044	128	0	0	10.0		10306
PCT	1.8	4.1	53.6	39.2	1.2	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.2	.3		6.1
NE	.1	.2	.2	.4		5.9
E	.5	.4	.7	.8		5.2
SE	6.2	6.7	11.6	5.6		4.8
S	4.8	7.7	18.8	13.7		5.7
SW	1.0	1.8	5.8	5.8		6.3
W	.2	.3	1.4	1.6		6.5
NW	.1	.2	.4	.6		6.3
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.6	.6		5.3
TOT OBS	714	942	2137	1576	5369	5.6
TOT PCT	13.3	17.5	39.8	29.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.3	
NE	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
E	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3	
SE	.0	.0	.2	2.0	4.7	2.9	1.0	.3	.1	.1	18.6	
S	.1	.1	.7	3.9	9.6	5.4	1.6	.6	.1	.2	22.6	
SW	.0	.1	.4	1.7	3.2	1.5	.6	.1	.0	.2	6.7	
W	.0	.0	.1	.5	.8	.4	.1	.0	.0	.0	1.5	
NW	.0	.0	.1	.2	.2	.2	.1	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.4	.2	.0	.1	.0	.1	1.0	
TOT OBS	12	10	81	477	1063	587	189	55	18	31	2846	5369
TOT PCT	.2	.2	1.5	8.9	19.8	10.9	3.5	1.0	.3	.6	53.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	# OR >10	# OR >5	# OR >2	VSBY (NM) # OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0
# OR >6500	.8	.9	.9	.9	.9	.9	.9	.9
# OR >5000	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9
# OR >3500	4.2	5.2	5.4	5.4	5.4	5.4	5.4	5.4
# OR >2000	13.1	15.8	16.2	16.2	16.2	16.2	16.2	16.2
# OR >1000	29.5	35.1	36.0	36.1	36.2	36.2	36.2	36.2
# OR >600	35.9	43.2	44.8	45.0	45.0	45.1	45.1	45.1
# OR >300	36.4	44.4	46.2	46.4	46.5	46.5	46.6	46.6
# OR >150	36.5	44.6	46.4	46.6	46.7	46.7	46.8	46.8
# OR >0	36.6	44.8	46.5	46.8	46.9	46.9	47.0	47.0
TOTAL	2042	2499	2599	2614	2619	2621	2626	2627

TOTAL NUMBER OF OBS: 5584

PCT FREQ NH < 5/8: 53.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.3	7.7	13.0	14.8	12.5	8.9	11.1	8.6	18.9	.1	5922

PERIOD: (PRIMARY) 1924-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	*	.1	*	*	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	*	*	.0	.0	*	.0	.0	*	
	TOT %	.0	*	*	*	.1	*	*	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.2	
1<2	PCP	*	*	*	.1	.1	.1	*	.0	.0	.0	.3	
	NO PCP	.0	*	*	.1	.1	*	.0	.0	.0	*	.2	
	TOT %	*	*	*	.1	.2	.1	*	.0	.0	*	.5	
2<5	PCP	*	*	.1	.2	.5	.2	*	*	.0	*	1.2	
	NO PCP	*	*	*	.1	.3	.1	*	*	.0	.1	.7	
	TOT %	.1	.1	.1	.3	.8	.4	.1	.1	.0	.1	1.9	
5<10	PCP	.1	.1	.2	.8	2.0	1.3	.4	.1	.0	*	5.1	
	NO PCP	.1	.2	.5	5.8	6.6	2.3	.5	.3	.0	.2	16.4	
	TOT %	.2	.2	.7	6.6	8.5	3.6	.9	.4	.0	.3	21.5	
10+	PCP	*	.1	.1	.6	1.5	.9	.3	.1	.0	*	3.7	
	NO PCP	.4	.5	1.6	23.4	32.3	9.6	2.1	.7	.0	1.4	72.1	
	TOT %	.5	.6	1.7	24.0	33.8	10.5	2.4	.8	.0	1.4	75.8	
TOT OBS													6881
TOT PCT		.7	.9	2.6	31.1	43.5	14.6	3.4	1.3	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	*	.0	.0	*	
	4-10	.0	.0	.0	*	.1	*	*	.0	.0	.0	.1	
	11-21	.0	*	*	*	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	*	.1	*	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.2	
1<2	0-3	.0	*	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	*	*	*	.1	.1	*	*	.0	.0	.0	.3	
	11-21	.0	.0	*	*	.1	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	.2	.2	.1	*	.0	.0	*	.7	
2<5	0-3	*	*	*	.0	*	.0	.0	*	.0	.1	.2	
	4-10	.0	.1	.1	.1	.4	.3	.1	*	.0	.1	1.1	
	11-21	*	*	*	.2	.4	.3	*	*	.0	.0	1.0	
	22+	*	.0	*	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.3	.9	.6	.1	.1	.0	.1	2.4	
5<10	0-3	*	*	.1	.2	.2	.2	.1	*	.0	.3	1.1	
	4-10	.1	.2	.5	3.0	4.0	2.1	.6	.4	.0	.0	10.9	
	11-21	*	*	.2	2.4	3.7	1.4	.2	.1	.0	.0	8.1	
	22+	.0	.0	*	.2	.2	*	.0	.0	.0	.0	.4	
	TOT %	.2	.3	.7	5.8	8.0	3.8	.9	.5	.0	.3	20.4	
10+	0-3	.1	.1	.1	.6	1.0	.6	.2	.1	.0	1.4	4.4	
	4-10	.2	.4	1.2	11.8	16.8	7.8	2.0	.6	.0	.0	40.7	
	11-21	.1	.1	.2	10.1	16.0	3.4	.4	.1	.0	.0	30.4	
	22+	*	.0	*	.1	.5	*	*	*	.0	.0	.6	
	TOT %	.4	.6	1.6	22.6	34.2	11.8	2.6	.9	.0	1.4	76.1	
TOT OBS													8208
TOT PCT		.7	.9	2.4	29.0	43.6	16.4	3.7	1.5	.0	1.9	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	2000	2150	2300	2450	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1499	1999	2499	2999	3499	3999	4499	4999	5499	5999	6499	6999	7499	43.1	56.9	1340
0600	.3	.0	1.5	7.8	18.3	10.1	3.4	.7	.3	.7	43.1	56.9	1340							
0609	.4	.5	1.8	11.1	22.3	11.2	3.5	1.1	.6	.5	52.9	47.1	1404							
12015	.1	.2	1.2	8.8	19.1	10.9	3.6	1.3	.3	.4	45.8	54.2	1558							
18021	.1	.1	1.4	7.0	18.6	10.3	3.0	.8	.1	.6	42.0	58.0	1429							
TOT	12	12	83	497	1121	609	194	55	19	32	2634	3097	5731							
PCT	.2	.2	1.4	8.7	19.6	10.6	3.4	1.0	.3	.6	46.0	54.0	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.1	.2	.6	2.5	19.8	76.9	1932
0609	.4	.3	.7	2.8	24.9	70.9	2275
12015	.1	.2	1.0	2.4	14.5	79.8	2063
18021	.2	.2	.5	1.8	20.4	76.7	2216
TOT	17	19	59	203	1745	4443	8486
PCT	.2	.2	.7	2.4	20.6	75.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND+5	NH <5/8 AND 5+	TOTAL OBS
0000	.3	1.8	10.9	33.5	55.6	1301
0609	.4	3.0	15.2	38.9	45.9	1366
12015	.1	1.6	12.0	34.6	53.3	1530
18021	.1	1.8	9.9	33.4	56.7	1367
TOT	12	115	671	1960	2953	5584
PCT	.2	2.1	12.0	35.1	52.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	*	*	.0	6	.1
85/89	.0	.0	.0	.1	.6	1.1	.2	*	118	2.0
80/84	.0	.0	.0	.1	2.0	23.8	17.3	3.5	2677	45.6
75/79	.0	.0	.0	.0	.5	14.6	21.4	9.1	2676	45.6
70/74	.0	.0	.0	.0	*	.4	3.2	3.1	389	6.6
TOTAL	0	0	0	10	189	2337	2471	859	5866	100.0
PCT	.0	.0	.0	.2	3.2	39.8	42.1	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	*	.0	.0	.0	.0	.0
.0	.0	*	.9	.7	.1	.1	*	.0	.1
.2	.4	.8	13.1	20.5	7.2	1.8	.5	.0	1.0
.4	.4	1.1	13.6	20.4	6.9	1.4	.5	.0	.7
*	.1	.5	3.7	1.7	.3	.1	.1	.0	.1
.7	1.0	2.5	31.4	43.4	14.5	3.3	1.3	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	89	83	82	79	74	72	69	78.4	2270
0609	88	83	82	79	73	71	68	78.1	2941
12015	93	87	85	80	75	73	68	80.3	2389
18021	93	85	83	80	75	73	70	79.4	2941
TOT	93	86	83	79	74	72	68	79.0	10541

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.1	.7	32.6	49.8	16.7	83	1463
0609	.0	.0	.8	29.0	48.8	21.3	84	1552
12015	.0	.4	7.5	48.6	33.3	10.2	79	1565
18021	.0	.1	3.4	46.9	38.0	11.7	81	1519
TOT	0	10	192	2399	2585	913	82	6099

PERIOD: (PRIMARY) 1924-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT FOG	N FOG	WU FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	.0	*	.1	*	.0	.0	11	.0	.2
7/8	.0	.0	.0	.1	.2	*	*	*	34	.0	.5
6	.0	.0	.0	.1	.1	*	.1	.0	20	.0	.3
5	.0	.0	*	.3	.3	.3	*	.0	63	.0	1.0
4	.0	.0	.1	.3	.5	.4	.0	.0	84	.0	1.3
3	.0	*	.3	.5	.8	.4	.0	.0	124	.0	2.0
2	.0	.0	.5	.7	1.4	.4	.0	.0	189	.0	3.0
1	.0	.2	1.0	1.7	2.9	.2	.0	.0	375	.1	5.8
0	.0	.4	1.4	4.2	5.5	.2	.0	.0	744	*	11.7
-1	.0	.5	2.1	8.8	8.1	*	.0	.0	1241	.1	19.4
-2	.0	.3	1.4	12.1	4.5	.1	.0	.0	1168	*	18.3
-3	.0	.1	1.7	10.1	2.2	*	.0	.0	900	*	14.1
-4	.0	.1	1.6	7.2	1.1	.0	.0	.0	638	*	10.0
-5	.0	.1	1.5	3.8	.6	.0	.0	.0	383	.0	6.0
-6	.0	.1	1.2	1.4	.1	.0	.0	.0	179	.0	2.8
-7/-8	.0	.2	1.2	1.0	.1	.0	.0	.0	155	*	2.4
-9/-10	.0	*	.4	.2	.0	.0	.0	.0	35	.0	.6
-11/-13	*	*	.1	.0	.0	.0	.0	.0	11	.0	.2
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	928	1809	143	9	2	6357	23	6334		
PCT	*	2.0	14.6	52.5	28.5	2.2	.1	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.4	.1	.0	.0	.0	.5	.0	.5	.1	.0	.0	.0	.6
3-4	*	.1	*	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.1
5-6	.0	.0	*	.0	.0	.0	*	.0	*	*	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.1	*	.0	.0	.8	.1	.6	.2	.0	.0	.0	.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.3	.3	1.0	.1	.0	.0	.0	1.5
1-2	.1	1.0	.1	.0	.0	.0	1.2	.4	8.6	2.9	.0	.0	.0	11.8
3-4	.0	.5	.2	.1	.0	.0	.8	.0	4.6	6.2	*	.0	.0	10.9
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.5	3.8	.1	.0	.0	4.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	1.1	*	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.7	.5	.1	.0	.0	2.4	.7	14.8	14.2	.2	.0	.0	29.8

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0010 MUNROVIA
4.0N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SFA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.1	.0	.0	.0	2.4	.3	1.0	.1	.0	.0	.0	1.5
1-2	.5	12.8	4.4	.0	.0	.0	17.7	.3	5.3	1.6	.0	.0	.0	7.2
3-4	.1	5.9	9.2	.2	.0	.0	15.5	*	2.2	2.1	.0	.0	.0	4.3
5-6	.0	.8	5.4	.3	.0	.0	6.5	.0	.1	.9	*	.0	.0	1.1
7	.0	*	1.8	.1	.0	.0	1.0	.0	*	.2	*	.0	.0	.2
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	21.1	21.1	.8	.0	.0	44.4	.7	8.7	5.0	*	.0	.0	14.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.2	.0	.0	.0	.0	.3	
1-2	.2	1.7	.1	.0	.0	.0	1.9	.1	.4	.1	.0	.0	.0	.6	
3-4	.0	.5	.3	.0	.0	.0	.7	.0	.1	.2	.0	.0	.0	.3	
5-6	.0	*	.1	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	*	
7	.0	.0	*	*	.0	.0	.1	.0	.0	*	.0	.0	.0	*	
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.6	.5	*	.0	.0	3.5	.2	.7	.3	.0	.0	.0	1.3	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	4.0	.4	.0	.0	.0	10.8	
1-2	2.4	30.1	9.1	.0	.0	.0	41.5	
3-4	.2	13.5	17.8	.3	.0	.0	31.8	
5-6	.0	1.4	10.2	.3	.0	.0	12.0	
7	.0	.1	3.0	.2	.0	.0	3.4	
8-9	.0	*	.2	.1	.0	.0	.3	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	50.1	40.8	1.1	.0	.0	100.0	3510

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	10.3	15.6	6.4	2.6	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1609	3
6-7	*	1.5	8.1	9.1	5.0	1.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1125	5
8-9	*	.9	2.3	4.2	3.0	1.0	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	516	5
10-11	.0	.6	.9	1.2	1.1	.4	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	5
12-13	.0	.0	1.2	.8	.4	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	5
13-16	.0	.0	.0	.0	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	7
INDET	2.0	4.2	5.9	3.2	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	744	3
TOTAL	146	764	1490	1100	618	159	88	14	9	0	0	0	0	0	0	0	0	0	0	4338	4
PCT	3.4	17.5	34.0	25.2	14.2	3.6	1.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

JULY

AREA 0010 MONROVIA
4.0N 11.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.5	.0	.0	.0	.0	.0	.0	2.5	8.8	10.0	5.0	.0	5.0	.0	68.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	5.4	.0	5.4	.0	4.3	.0	84.8
E	.7	.7	.0	.0	.0	.0	.0	1.5	.7	1.1	2.6	.0	3.9	.0	90.6
SE	.9	1.0	.1	.0	.0	.0	.0	2.0	1.2	.3	.7	.1	.5	.1	95.3
S	1.7	2.7	.8	.0	.0	.0	.0	5.1	3.8	.5	.5	.0	.5	.0	89.6
SW	3.8	5.5	1.8	.0	.0	.0	.0	13.0	6.5	1.2	.7	.0	.2	.0	78.7
W	9.7	8.5	3.4	.0	.0	.0	.0	20.7	12.1	2.0	.0	.0	.0	.0	66.1
NW	20.3	5.6	3.5	.0	.0	.0	.0	26.6	11.2	3.5	.0	.0	.0	.0	58.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	1.4	.0	.0	.0	.0	2.9	2.9	2.9	2.9	1.4	11.4	.0	77.1
TOT PCT	2.4	2.8	.8	.0	.0	.0	.0	6.0	3.8	.7	.7	*	.6	*	88.3
TOT OBS:	7677														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	2.5	2.9	1.1	.0	.0	.0	.0	6.3	3.6	1.3	1.1	.1	.6	.0		87.2
06009	2.8	3.1	1.2	.0	.0	.0	.0	6.9	3.0	1.0	1.2	.1	.7	.0		87.4
12015	2.5	2.3	.6	.0	.0	.0	.0	5.4	4.8	.1	.5	.0	.6	.1		88.7
18021	1.9	2.9	.6	.0	.0	.0	.0	5.4	3.9	.3	.5	.1	.7	.0		89.1
TOT PCT TOT OBS:	2.4 7835	2.8	.9	.0	.0	.0	.0	6.0	3.8	.7	.8	.1	.7	*		88.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OPS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.1	*	*	.0	.0		.2	6.3		.2	.0	.3	.4	.3	.0	.1	.1
NE	.1	.2	*	.0	.0	.0		.2	7.2		.4	.0	.2	.3	.2	.6	.2	.1
E	.2	1.1	.2	*	.0	.0		1.4	7.3		1.3	1.1	1.7	1.1	1.5	3.7	1.3	1.1
SE	.8	11.2	8.8	1.4	*	.0		21.3	10.5		21.6	15.0	21.6	16.1	23.1	19.3	23.2	16.1
S	.9	21.8	26.4	1.2	*	.0		50.2	11.7		48.9	57.9	47.4	51.1	50.8	59.1	52.4	49.8
SW	.5	10.6	10.5	.6	*	.0		22.2	11.4		22.2	20.8	23.7	26.9	20.5	15.4	19.6	27.3
W	.1	1.8	1.0	*	.0	.0		3.0	9.7		3.4	4.2	3.4	3.6	2.5	.7	2.1	4.2
NW	*	.4	.1	*	.0	.0		.6	9.4		.7	1.1	.3	.4	.6	.6	.7	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8							.8	.0		1.2	.0	1.3	.2	.6	.6	.5	.4
TOT OBS	392	5454	5446	259	4	0	11555		11.1		2303	162	2267	842	2460	170	2387	964
TOT PCT	3.4	47.2	47.1	2.2	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OPS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.1	.1	*	.0	.0			.2	6.3		.2	.3	.3	.1
NE	.1	.1	*	.0	.0			.2	7.2		.4	.2	.2	.1
E	.7	.7	*	.0	.0			1.4	7.3		1.3	1.5	1.7	1.3
SE	4.4	14.6	2.3	.1	.0			21.3	10.5		21.2	20.1	22.8	21.2
S	6.3	35.6	8.2	.1	.0			50.2	11.7		49.5	48.4	51.3	51.6
SW	3.0	15.7	3.5	*	.0			22.2	11.4		22.1	24.6	20.1	21.8
W	.8	1.9	.3	*	.0			3.0	9.7		3.5	3.4	2.4	2.7
NW	.2	.3	.1	.0	.0			.6	9.4		.8	.3	.6	.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	.8							.8	.0		1.1	1.0	.6	.4
TOT OBS	1900	7975	1440	31	0	11555			11.1		2465	3109	2630	3351
TOT PCT	16.4	69.0	14.3	.3	.0			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

JULY

AREA 0010 MONROVIA
4.0N 11.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.1	2.6	50.6	43.6	2.1	*	.0	10.9	100.0	2465	
06009	1.0	3.4	51.0	42.2	2.3	*	.0	10.7	100.0	3109	
12015	.6	2.5	43.9	50.7	2.2	.1	.0	11.5	100.0	2630	
18021	.4	1.9	43.7	51.6	2.3	.0	.0	11.5	100.0	3351	
TOT	90	302	5454	5446	259	4	0	11.1		11555	
PCT	.8	2.6	47.2	47.1	2.2	*	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	.1	.1	4.4	
NE	.1	*	.1	*	5.0	
E	1.1	.2	.3	.2	2.8	
SE	8.4	6.2	7.8	4.1	4.1	
S	9.0	9.7	18.8	14.5	5.3	
SW	1.3	1.8	5.9	6.7	6.3	
W	.2	.2	.6	1.2	6.5	
NW	.0	*	.2	.2	7.0	
VAR	.0	.0	.0	.0	.0	
CALM	.4	.1	.2	.2	3.6	
TOT OBS	1219	1087	2026	1629	5961	
TOT PCT	20.4	18.2	34.0	27.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	*	*	*	.0	*	.0	.0	.2	
.0	.0	.0	*	*	*	.0	*	.0	.0	.2	
.0	.0	*	.1	.1	.1	.0	.0	.0	.0	.3	
*	*	.1	1.3	3.4	2.2	.8	.3	.1	.3	17.8	
.1	.1	.6	4.5	9.7	6.6	2.0	.5	.1	.3	27.6	
*	.1	.2	2.0	4.2	1.8	.7	.2	*	.1	6.4	
.0	*	.1	.2	.5	.2	.1	.1	*	.0	.9	
.0	.0	*	.1	.1	*	.0	.0	.0	.0	.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	*	.2	.1	*	*	.0	*	.6	
.6	10	66	492	1091	668	217	65	16	41	3289	5961
.1	.2	1.1	8.3	18.3	11.2	3.6	1.1	.3	.7	55.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.7
* OR >2000	14.4	16.5	16.8	16.8	16.8	16.8	16.8	16.8
* OR >1000	29.6	34.3	34.9	34.9	35.0	35.0	35.0	35.0
* OR >600	36.1	42.2	43.0	43.1	43.1	43.1	43.1	43.2
* OR >300	36.9	43.3	44.1	44.2	44.2	44.3	44.3	44.3
* OR >150	37.0	43.4	44.3	44.3	44.4	44.4	44.4	44.4
* OR >0	37.0	43.4	44.4	44.4	44.5	44.5	44.5	44.6
TOTAL	2243	2635	2690	2694	2699	2701	2701	2702

TOTAL NUMBER OF OBS: 6065

PCT FREQ NH <5/8: 55.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.6	8.9	12.7	13.9	11.9	8.0	9.3	8.5	19.2	*	6403

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1894-1973

JULY

AREA 0010 MONROVIA
4.0N 11.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*
	NO PCP	.0	.0	*	*	*	.0	.0	.0	.0	*	*	.1
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	*	*	.1
1/2<1	PCP	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.2	.2
1<2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	*	*	.1	*	.0	.0	.0	.0	.1	.2
2<5	PCP	.0	.0	.0	*	.2	.3	*	*	.0	.0	.6	.6
	NO PCP	*	*	*	.1	.1	.1	*	*	.0	*	.5	.5
	TOT %	*	*	*	.1	.3	.4	.1	.1	.0	*	1.0	1.0
5<10	PCP	*	.0	*	.2	1.5	1.2	.3	.1	.0	*	3.2	3.2
	NO PCP	.1	.1	.2	3.2	9.5	3.3	.6	.1	.0	.2	17.3	17.3
	TOT %	.1	.1	.2	3.4	11.0	4.5	.9	.1	.0	.3	20.6	20.6
10+	PCP	.0	.0	*	.2	1.0	.6	.1	*	.0	.0	2.0	2.0
	NO PCP	.2	.2	1.5	21.1	40.0	10.8	1.4	.3	.0	.5	75.9	75.9
	TOT %	.2	.2	1.5	21.3	41.0	11.4	1.5	.3	.0	.5	77.9	77.9
TOT OBS													7676
TOT PCT		.3	.3	1.8	24.0	52.5	16.5	2.4	.5	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*	*
	4-10	.0	.0	.0	*	*	.0	.0	*	.0	*	*	*
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*
	TOT %	.0	.0	*	*	.0	.0	.0	*	.0	*	*	.1
1/2<1	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	.1
	4-10	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	.1
	11-21	.0	.0	.0	*	.1	.1	*	*	.0	*	.2	.2
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	*
	TOT %	.0	.0	.0	*	.1	.1	*	*	.0	*	.3	.3
1<2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	*	.0	*	*	*	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	*	.1	*	*	.0	.0	.0	.1	.1
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	*	*	.1	.1	*	.0	.0	.1	.4	.4
2<5	0-3	*	.0	.0	.0	*	.1	.0	.0	.0	*	.1	.1
	4-10	*	*	*	*	.2	.2	*	*	.0	*	.6	.6
	11-21	.0	.0	*	.1	.3	.2	*	*	.0	*	.7	.7
	22+	.0	.0	.0	*	*	*	.0	.0	.0	*	*	*
	TOT %	*	*	*	.1	.5	.5	.1	.1	.0	*	1.4	1.4
5<10	0-3	*	*	*	.2	.2	.1	.1	*	.0	.2	.9	.9
	4-10	*	.1	.1	1.7	4.4	2.2	.5	.1	.0	.0	9.2	9.2
	11-21	*	*	*	1.2	5.4	2.4	.3	*	.0	.0	9.3	9.3
	22+	.0	.0	*	*	.2	.2	*	.0	.0	.0	.4	.4
	TOT %	.1	.1	.2	3.1	10.3	4.9	.8	.1	.0	.2	19.9	19.9
10+	0-3	*	*	.2	.7	.7	.3	.1	*	.0	.5	2.5	2.5
	4-10	.1	.1	1.0	10.6	18.2	7.1	1.0	.2	.0	.0	38.3	38.3
	11-21	*	*	.2	8.3	21.3	5.9	.4	.1	.0	.0	36.1	36.1
	22+	.0	.0	.0	.3	.6	.1	.0	*	.0	.0	1.0	1.0
	TOT %	.1	.2	1.3	19.8	40.8	13.4	1.5	.3	.0	.5	77.9	77.9
TOT OBS													9149
TOT PCT		.2	.3	1.6	23.1	51.9	19.1	2.5	.5	.0	.9	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

JULY

AREA 0010 MUNROVIA
4.0N 11.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.3	.2	1.2	8.3	16.7	8.8	3.7	.5	.4	.6	40.7	59.3	1461
06009	.0	.1	1.4	9.5	21.5	12.4	3.6	1.7	.2	1.2	51.7	48.3	1481
12015	.1	.1	.8	7.2	17.2	10.7	3.6	1.1	.2	.6	41.5	58.5	1690
18021	.1	.2	1.0	7.2	15.8	11.6	3.2	1.0	.3	.3	40.6	59.4	1589
TOT	7	10	48	496	1104	677	218	47	17	42	2706	3515	6221
PCT	.1	.2	1.1	8.0	17.7	10.9	3.5	1.1	.3	.7	43.5	56.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.3	.4	.2	2.1	18.1	73.9	2108
06009	.1	.5	.3	1.4	23.8	73.9	2443
12015	.1	.3	.5	1.7	14.9	82.5	2235
18021	*	.4	.4	.7	22.2	76.2	2524
TOT	13	38	33	137	1855	7234	9310
PCT	.1	.4	.4	1.5	19.9	77.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.3	1.8	11.7	30.8	57.6	1416
06009	.0	1.7	12.4	40.5	47.0	1454
12015	.2	1.0	9.3	33.6	57.1	1648
18021	.1	1.5	9.3	32.4	58.2	1547
TOT	8	91	644	2080	3341	6065
PCT	.1	1.5	10.6	34.3	55.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	*	.0	.0	.0	1	*
85/89	.0	.0	.0	*	.1	.1	*	.0	21	.3
80/84	.0	.0	.0	*	2.4	11.1	4.5	.5	1201	18.6
75/79	.0	.0	.0	*	2.4	28.5	24.3	5.7	3936	61.0
70/74	.0	.0	.0	.0	.1	3.3	9.6	5.2	1171	18.1
65/69	.0	.0	.0	.0	.0	.0	.6	1.3	123	1.9
TOTAL	0	0	0	6	331	2778	2518	820	6453	100.0
PCT	.0	.0	.0	.1	5.1	43.0	39.0	12.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	.2	*	.0	*	.0	.0
*	*	.1	3.8	9.7	4.0	.7	.1	.0	.1
.1	.1	.3	12.7	34.3	11.4	1.6	.3	.0	.2
.1	.1	.9	8.1	7.2	1.1	.1	*	.0	.4
.1	*	.3	.9	.4	*	.0	.0	.0	.2
.2	.3	1.6	25.6	51.8	16.6	2.5	.4	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	87	81	80	77	71	68	65	76.3	2500
06009	89	81	80	77	70	68	66	76.0	3159
12015	91	85	83	79	73	70	67	78.3	2635
18021	90	84	81	78	72	70	66	77.4	3355
TOT	91	83	81	77	71	69	65	77.0	11649

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	1.6	38.1	44.5	15.7	82	1586
06009	.0	.1	2.1	32.6	45.3	19.9	83	1634
12015	.0	.2	10.3	52.4	29.6	7.5	78	1675
18021	.0	.1	5.9	47.3	36.6	10.1	80	1689
TOT	0	6	333	2814	2561	870	81	6584

JULY

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973AREA 0010 MONROVIA
4.0N 11.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	% FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	*	1	.0	*
11/13	.0	.0	.0	*	.1	.1	*	11	.0	.2
9/10	.0	.0	*	*	*	.1	*	11	.0	.2
7/8	.0	.0	*	.2	.2	*	*	29	.0	.4
6	.0	.0	.1	.2	.1	*	*	28	.0	.4
5	.0	.0	.2	.4	.3	.1	.0	63	*	.9
4	.0	*	.4	.5	.2	.1	.0	86	.0	1.2
3	*	.1	.7	.5	.6	.1	.0	142	*	2.0
2	*	.3	.8	.9	.9	*	.0	210	.1	2.9
1	*	1.2	1.4	2.7	1.6	*	.0	491	.1	6.9
0	.1	1.8	2.1	6.4	2.7	*	.0	927	.2	13.0
-1	.2	1.9	3.4	11.8	1.5	.0	.0	1317	.2	18.5
-2	.1	.9	4.0	12.6	.7	.0	.0	1297	.1	18.3
-3	.1	.9	5.4	8.7	.2	.0	.0	1081	.1	15.3
-4	*	.5	3.8	3.9	.2	.0	.0	589	.1	8.3
-5	*	.6	3.2	2.1	.2	.0	.0	427	*	6.0
-6	*	.3	1.1	.6	*	.0	.0	151	.0	2.1
-7/-8	*	.3	1.1	.5	.0	.0	.0	135	.0	1.9
-9/-10	*	.1	.3	.1	.0	.0	.0	38	.0	.5
-11/-13	*	*	.1	.0	.0	.0	.0	8	*	.1
-14/-18	*	*	*	.0	.0	.0	.0	4	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	.0		1974		669		7	7047	.61	6986
PCT	.7	635	28.0	52.2	9.5	.5	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	*	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1
3-4	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.4	.8	*	.0	.0	.0	1.2
1-2	*	.9	.1	.0	.0	.0	1.0	.3	7.9	2.1	.0	.0	.0	10.3
3-4	.0	.4	.1	.0	.0	.0	.5	.1	4.1	4.6	.1	.0	.0	8.9
5-6	.0	.0	.1	.0	.0	.0	.1	.1	.5	2.3	.1	.0	.0	3.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	*	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.5	.2	.0	.0	.0	1.9	.9	13.3	9.8	.3	.0	.0	24.2

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0010 MONROVIA
4.0N 11.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.1	.0	.0	.0	2.5	.1	.7	.0	.0	.0	.0	.8
1-2	.2	12.0	5.4	.0	.0	.0	17.6	.1	4.4	1.4	.0	.0	.0	5.9
3-4	.0	7.3	13.3	.3	.0	.0	20.9	.0	2.7	3.3	.0	.0	.0	6.1
5-6	.1	1.2	7.9	.3	.0	.0	9.5	.0	.4	1.7	.1	.0	.0	2.1
7	.0	.1	2.4	.1	.0	.0	2.6	.0	.1	.6	.0	.0	.0	.7
8-9	.0	.1	.4	.2	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	22.7	29.6	.9	.0	.0	53.9	.2	8.4	7.2	.2	.0	.0	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.7	.2	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.7	.3	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	.6	.0	.0	.0	2.2	.0	.3	.1	.0	.0	.0	.4	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	4.0	.2	.0	.0	.0	7.1	
1-2	.9	26.0	9.1	.0	.0	.0	36.0	
3-4	.2	15.1	21.3	.4	.0	.0	37.0	
5-6	.1	2.1	12.0	.5	.0	.0	14.8	
7	.0	.3	3.6	.1	.0	.0	4.0	
8-9	.0	.1	.6	.2	.0	.0	.8	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	47.6	47.0	1.3	.0	.0	100.0	4117

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	9.6	15.6	7.5	2.7	.6	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1825
6-7	.1	1.6	7.7	8.7	4.8	1.4	.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1254
8-9	.0	.3	1.8	4.8	3.3	1.1	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	612
10-11	.0	.4	1.0	1.8	1.1	.7	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	263
12-13	.0	.0	1.2	.8	.7	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149
>13	.0	.0	.0	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75
INDGT	1.8	3.1	4.7	3.2	1.3	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	742
TOTAL	134	737	1575	1353	706	238	115	24	34	4	0	0	0	0	0	0	0	0	0	0	4920
PCT	2.7	15.0	32.0	27.5	14.3	4.8	2.3	.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1894-1973

AUGUST

AREA 0010 MONROVIA
4.1N 11.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	25.0	13.9	.0	.0	.0	.0	.0	38.9	.0	.0	.0	.0	8.3	.0	52.8
NE	6.3	9.4	.0	.0	.0	.0	.0	15.6	.0	6.3	.0	.0	.0	.0	84.4
E	1.0	1.0	1.9	.0	.0	.0	.0	3.9	1.9	1.0	3.9	.0	1.9	.0	88.4
SE	.8	.9	.4	.0	.0	.0	.0	2.2	1.2	.2	1.0	.0	1.0	.0	94.5
S	1.9	2.3	1.2	.0	.0	.0	.0	5.2	3.1	.2	.4	.0	.3	.0	90.7
SW	4.5	3.5	2.1	.0	.0	.0	.0	11.9	5.8	.5	.5	.0	.2	.0	81.2
W	8.1	10.4	4.3	.0	.0	.0	.0	22.7	6.9	.5	.0	.0	.0	.0	70.1
NW	15.1	4.4	7.5	.0	.0	.0	.0	27.0	10.1	2.5	.0	.0	.6	.0	59.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	2.4	.0	.0	.0	.0	.0	7.1	4.8	.0	2.4	.0	.0	.0	85.7
TOT PCT	2.7	3.2	1.4	.0	.0	.0	.0	7.2	3.6	.3	.5	.0	.4	.0	88.0
TOT OBS:	7688														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.8	3.0	1.7	.0	.0	.0	.0	6.4	4.0	.7	.5	.0	.2	.0	88.2
06009	3.1	4.2	1.7	.0	.0	.0	.0	8.8	4.2	.4	.7	.0	.3	.0	85.8
12015	3.0	2.5	1.3	.0	.0	.0	.0	6.7	3.5	.1	.6	.0	.6	.0	88.6
18021	3.0	3.1	1.0	.0	.0	.0	.0	7.1	3.0	.3	.5	.0	.5	.0	88.8
TOT PCT	2.8	3.2	1.4	.0	.0	.0	.0	7.2	3.7	.3	.5	.0	.4	.0	87.9
TOT OBS:	7772														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.*	.1	.*	.0	.0	.0		.1	5.8		.1	.0	.1	.0	.2	.0	.1	.0
NE	.*	.1	.*	.0	.0	.0		.1	8.3		.1	.0	.*	.5	.1	.0	.1	.3
E	.1	.4	.1	.0	.0	.0		.6	7.4		.7	.0	.5	.9	.5	.8	.4	.4
SE	.4	6.8	5.0	.1	.*	.0		12.2	10.2		12.7	6.3	11.6	10.7	12.9	11.6	13.1	11.0
S	.7	21.5	28.2	1.2	.*	.0		51.6	11.9		50.7	60.2	50.6	48.1	54.0	56.6	53.6	45.9
SW	.3	14.0	15.3	.9	.*	.0		30.6	11.6		30.5	30.4	31.7	34.1	27.8	26.3	28.8	36.7
W	.1	2.2	1.4	.1	.*	.0		3.8	10.3		3.9	3.1	3.8	4.6	3.8	4.0	3.2	5.0
NW	.1	.3	.1	.*	.0	.0		.5	7.9		.5	.0	.7	.6	.6	.7	.4	.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5							.5	.0		.8	.0	.9	.4	.1	.0	.3	.2
TOT OBS	274	5254	5816	263	6	0	11613		11.4		2317	167	2308	896	2468	177	2295	985
TOT PCT	2.4	45.2	50.1	2.3	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.1	.*	.0	.0	.0		.1	.1	.1	.2	.1
NE	.1	.*	.0	.0	.0		.1	.2	.1	.1	.1
E	.3	.3	.*	.0	.0		.6	.7	.5	.4	.4
SE	2.4	8.7	1.0	.*	.0		12.2	10.2	12.3	11.3	12.9
S	5.9	37.4	8.2	.1	.0		51.6	11.9	51.3	49.9	54.2
SW	3.6	22.3	4.6	.1	.0		30.6	11.6	30.5	32.4	27.7
W	.9	2.6	.4	.*	.0		3.8	10.3	3.8	4.1	3.8
NW	.3	.2	.*	.0	.0		.5	7.9	.5	.7	.6
VAR	.0	.0	.*	.0	.0		.0	.0	.0	.0	.0
CALM	.5				.0		.5	.0	.8	.7	.1
TOT OBS	1609	8313	1661	30	0	11613		11.4	2484	3204	2645
TOT PCT	13.9	71.6	14.3	.3	.0		100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0010 MONROVIA
4.1N 11.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT	TOTAL
				11-21	22-33	34-47				FREQ	OBS
00003	.8	2.2	49.1	45.8	2.1	.1	.0	11.0	100.0	2484	
06009	.7	2.0	48.8	46.2	2.3	*	.0	11.0	100.0	3204	
12015	.1	1.6	41.3	54.7	2.3	.0	.0	11.9	100.0	2645	
18021	.3	1.8	42.1	53.4	2.3	.1	.0	11.8	100.0	3280	
TOT	56	218	5254	5816	263	6	0	11.4		11613	
PCT	.5	1.9	45.2	50.1	2.3	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN
				OBS'D	OBS	CLOUD COVER
N	*	.0	*	.1		5.5
NE	*	.0	*	*		5.5
E	.3	.1	.1	.1		3.1
SE	4.0	2.8	4.0	3.0		4.5
S	7.4	8.9	19.7	20.3		5.7
SW	1.6	2.6	10.0	11.0		6.4
W	.1	.3	1.1	1.3		6.6
NW	.0	*	.2	.3		6.9
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.2		4.3
TOT OBS	825	893	2126	2176	6020	5.7
TOT PCT	13.7	14.8	35.3	36.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.0	*	.0	*	.0	.0	.0	.0	.0	.1	
.0	.0	.0	*	*	.0	.0	.0	.0	*	.0	
.0	.0	.0	*	.0	*	.0	.0	.0	*	.0	
.0	.0	.1	1.0	2.0	1.4	.4	.2	.1	.1	8.5	
.1	*	.7	5.5	12.5	7.8	2.5	.7	.3	.2	26.0	
.2	*	.4	3.1	6.2	3.6	1.4	.4	.2	.1	9.6	
.0	*	.1	.4	.8	.4	.1	*	*	.0	.9	
*	.0	*	.1	.1	.1	*	*	*	.0	.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	*	.0	.0	*	.0	.3	
17	5	83	614	1309	804	275	39	26	2766	6020	
.3	.1	1.4	10.2	21.7	13.4	4.6	1.4	.6	.4	45.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	2.1	2.3	2.4	2.4	2.4	2.4	2.4	2.4
>3500	5.9	6.8	6.9	7.0	7.0	7.0	7.0	7.0
>2000	17.3	19.9	20.2	20.2	20.2	20.2	20.2	20.2
>1000	35.4	41.2	41.9	41.9	42.0	42.0	42.0	42.0
>600	43.1	50.9	51.9	52.1	52.2	52.2	52.2	52.2
>300	43.7	52.1	53.3	53.5	53.5	53.5	53.5	53.5
>150	43.7	52.1	53.3	53.6	53.6	53.6	53.6	53.6
>0	43.8	52.3	53.6	53.8	53.9	53.9	53.9	53.9
TOTAL	2655	3169	3247	3262	3266	3266	3267	3267

TOTAL NUMBER OF OBS: 6060

PCT FREQ NH <5/8: 46.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS'D	TOTAL
										OBS
4.4	7.0	10.8	12.8	10.6	7.8	9.9	10.3	26.2	.2	6461

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0010 MONROVIA
4.1N 11.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	*	.1	.1	*	*	*	.0	.0	.3	
1<2	PCP	*	*	.0	*	.1	*	*	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	*	.0	*	.1	*	*	*	.0	.0	.2	
2<5	PCP	.0	.0	.0	*	.3	.4	.1	.0	.0	*	.8	
	NO PCP	.0	.0	.0	*	.3	.2	*	.0	.0	*	.6	
	TOT %	.0	.0	.0	.1	.6	.6	.2	.0	.0	*	1.4	
5<10	PCP	*	*	*	.1	1.3	1.6	.3	.1	.0	*	3.4	
	NO PCP	*	.1	.2	2.9	9.7	4.4	.6	.2	.0	.1	18.1	
	TOT %	*	.1	.2	2.9	11.0	6.0	1.0	.2	.0	.2	21.5	
10+	PCP	*	.0	.0	.2	1.2	1.0	.2	.1	.0	*	2.7	
	NO PCP	*	*	.4	11.0	42.4	17.7	1.6	.2	.0	.4	73.8	
	TOT %	.1	*	.4	11.1	43.6	18.8	1.8	.3	.0	.4	76.5	
TOT OBS													7680
TOT PCT		.1	.1	.7	14.2	55.4	25.4	3.0	.5	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.1	*	*	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.1	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	*	*	.0	*	.1	.1	*	*	.0	.0	.2	
2<5	0-3	*	.0	.0	*	*	.0	.0	*	.0	*	.1	
	4-10	*	.0	.0	*	.2	.3	.1	*	.0	*	.7	
	11-21	.0	.0	.0	*	.4	.5	.1	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	TOT %	*	.0	.0	.1	.6	.8	.2	*	.0	*	1.8	
5<10	0-3	.0	*	.1	.1	.1	.1	*	.1	.0	.2	.6	
	4-10	*	*	.1	1.4	3.7	2.7	.4	*	.0	*	8.3	
	11-21	.0	*	*	1.1	6.0	3.4	.4	.1	.0	.0	11.0	
	22+	.0	.0	.0	*	.3	.2	*	*	.0	.0	.6	
	TOT %	*	.1	.2	2.5	10.1	6.4	.9	.2	.0	.2	20.6	
10+	0-3	*	.0	.1	.4	.7	.2	.1	*	.0	.3	1.9	
	4-10	*	*	.3	6.0	18.6	10.2	1.3	.2	.0	.0	36.7	
	11-21	.0	*	*	4.4	23.0	9.4	.7	.1	.0	.0	37.6	
	22+	.0	.0	.0	*	.6	.4	*	.0	.0	.0	1.0	
	TOT %	.1	*	.4	10.8	42.8	20.2	2.1	.3	.0	.3	77.1	
TOT OBS													9210
TOT PCT		.1	.1	.6	13.5	53.8	27.5	3.3	.5	.0	.5	100.0	

PERIOD: (PRIMARY) 1923-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.5	10.5	19.6	13.1	2.9	1.3	.4	.3	50.0	50.0	1425
06009	.6	.1	1.8	12.1	27.3	14.3	5.7	1.3	.3	.5	64.2	35.8	1515
12015	.1	.2	.8	8.1	19.4	12.0	5.0	1.3	1.2	.5	48.5	51.5	1714
18021	.1	.1	1.3	9.4	18.9	12.6	4.1	1.3	.4	.4	48.7	51.3	1568
TOT PCT	18 .3	5 .1	84 1.4	619 9.9	1322 21.2	807 13.0	277 4.5	42 1.3	39 .6	26 .4	3279 52.7	2943 47.3	6222 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	*	.1	.1	1.8	20.5	77.4	2087
06009	.1	.3	.2	1.7	24.3	73.4	2457
12015	.2	.3	.4	1.9	16.0	81.3	2269
18021	*	.3	.2	1.7	21.6	76.1	2479
TOT PCT	9 .1	24 .3	23 .2	165 1.8	1922 20.7	7149 76.9	9292 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	1.9	13.6	38.1	48.3	1382
06009	.5	2.5	15.8	50.0	34.2	1473
12015	.1	1.1	10.7	39.2	50.1	1671
18021	.1	1.7	12.2	37.7	50.1	1534
TOT PCT	17 .3	108 1.8	786 13.0	2496 41.2	2778 45.8	6060 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	*	.0	2	*
85/89	.0	.0	.0	*	.1	.1	*	.0	17	.3
80/84	.0	.0	.0	*	1.1	4.4	2.7	.3	685	10.5
75/79	.0	.0	.0	*	1.2	27.3	32.3	8.7	4515	69.5
70/74	.0	.0	.0	.0	*	2.8	11.1	5.2	1243	19.1
65/69	.0	.0	.0	.0	.0	.0	.2	.3	32	.5
TOTAL	0	0	0	7	164	2373	3016	934	6494	100.0
PCT	.0	.0	.0	.1	2.5	36.5	46.4	14.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.0	.0	.0	*	.2	.1	.0	.0	.0	.0
*	.0	*	1.1	5.5	3.3	.5	.1	.0	*
*	.2	7.2	39.2	20.3	2.1	.3	.0	.3	
*	*	.3	5.6	10.8	1.8	.2	.1	.0	.3
*	*	*	.2	.1	.0	*	.0	.0	*
.1	*	.6	14.2	55.8	25.5	2.8	.4	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	80	79	76	72	69	64	75.9	2477
06009	85	80	79	76	71	69	68	75.8	3187
12015	93	85	82	78	74	72	68	78.0	2625
18021	89	83	81	77	73	71	69	77.1	3242
TOT	93	83	81	77	72	70	64	76.7	11531

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	1.0	26.8	55.2	16.8	83	1562
06009	.0	.1	1.0	24.7	54.5	19.7	84	1660
12015	.0	.3	5.0	51.5	34.0	9.3	80	1687
18021	.0	.1	2.9	41.6	42.8	12.6	81	1643
TOT	0	8	164	2381	3045	954	82	6552

PERIOD: (PRIMARY) 1923-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	.0	*	.1	.1	*	*	14	.0	.2
7/8	.0	.0	.0	.1	.3	.3	.1	.0	44	*	.6
6	.0	.0	.0	.1	.2	.1	*	.0	27	*	.4
5	.0	.0	.0	.1	.4	.3	.1	.0	87	*	.9
4	.0	.0	.0	.3	.9	.5	*	.0	113	*	1.6
3	.0	.0	.1	.8	.9	.6	*	.0	164	*	2.4
2	.0	.0	.2	.7	2.0	1.0	*	.0	271	*	3.9
1	.0	.0	.4	2.0	3.3	.8	.0	.0	450	*	6.5
0	.0	*	1.1	3.2	9.0	.9	.0	.0	984	.1	14.1
-1	.0	*	1.4	6.0	15.3	.3	.0	.0	1595	.2	22.9
-2	.0	*	1.0	7.6	10.9	.1	.0	.0	1357	.1	19.5
-3	.0	.0	.6	7.5	5.4	*	.0	.0	940	*	13.6
-4	.0	*	.6	3.7	2.2	*	.0	.0	449	*	6.5
-5	.0	*	.2	2.6	.8	*	.0	.0	255	.0	3.7
-6	.0	.0	.2	.9	.3	.0	.0	.0	97	.0	1.4
-7/-8	.0	.0	.2	.6	.1	.0	.0	.0	88	.0	1.0
-9/-10	*	*	.0	.1	*	.0	.0	.0	15	.0	.2
-11/-13	.0	*	*	*	.0	.0	.0	.0	7	.0	.1
TOTAL	1		420		3608		22		6919	41	6878
PCT	*	.1	6.1	36.3	52.1	5.0	.3	*	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*
3-4	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.1	.8	*	.0	.0	.0	.9
1-2	.0	.1	.0	.0	.0	.0	.1	.4	3.6	1.0	.0	.0	.0	5.0
3-4	.0	.1	*	.0	.0	.0	.1	.0	2.3	2.0	.0	.0	.0	4.3
5-6	.0	*	.0	.0	.0	.0	*	*	.2	1.6	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	*	.0	.0	.0	.4	.5	7.0	5.1	.0	.0	.0	12.6

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.3	.2	.0	.0	.0	2.9	.1	1.2	*	.0	.0	.0	1.4
1-2	.2	13.1	5.2	.0	.0	.0	18.4	.1	6.2	2.7	.0	.0	.0	9.0
3-4	.1	7.0	14.2	.1	.0	.0	21.3	*	3.9	6.1	*	.0	.0	10.1
5-6	*	1.3	8.9	.4	.0	.0	10.6	.0	.8	3.2	.3	.0	.0	4.2
7	.0	.4	2.2	.2	.0	.0	2.8	*	.1	.9	.2	.0	.0	1.2
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	*	*	.0	.0	*	.0	*	*	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	24.0	31.0	.9	.0	.0	56.6	.3	12.2	13.1	.6	*	.0	26.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.1	.0	.0	.0	.4	*	*	.0	.0	.0	.0	*	
1-2	.1	.9	.2	.0	.0	.0	1.2	.1	.1	*	.0	.0	.0	.2	
3-4	.0	.5	.5	.0	.0	.0	1.0	.0	*	.1	.0	.0	.0	.1	
5-6	.0	.1	.2	*	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
7	.0	*	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	1.1	*	*	.0	3.0	.1	.1	.1	.0	.0	.0	.4	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	4.6	.4	.0	.0	.0	6.9	
1-2	.9	24.0	9.0	.0	.0	.0	34.0	
3-4	.1	13.7	22.7	.2	.0	.0	36.6	
5-6	.1	2.4	13.9	.7	.0	.0	17.0	
7	*	.6	3.6	.4	*	.0	4.6	
8-9	.0	.0	.5	.2	.0	.0	.7	
10-11	.0	*	.1	*	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	45.3	50.2	1.5	*	.0	100.0	3902

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	10.1	16.0	8.7	2.6	.8	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1885	4
6-7	*	1.2	7.6	9.8	5.5	1.4	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1255	5
8-9	.3	2.0	4.4	3.0	1.1	.6	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	564	6
10-11	.0	.3	1.0	.8	.3	.1	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	5
12-13	.0	.0	.9	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	5
>13	.0	.0	.0	.5	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
INDET	1.5	3.1	5.1	3.0	1.4	.7	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	716	4
TOTAL	142	710	1541	1305	654	215	105	26	15	1	0	0	0	0	0	0	0	0	0	4714	4
PCT	3.0	15.1	32.7	27.7	13.9	4.6	2.2	.6	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1854-1973

SEPTEMBER

AREA 0010 MONROVIA
3.9N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	BLWG DUST	BLWG SNOW	
N	23.5	8.2	.0	.0	.0	.0	.0	31.8	.0	.0	.0	.0	.0	.0	.0	68.2
NE	22.1	10.5	.0	.0	.0	.0	.0	32.6	2.3	.0	.0	.0	.0	.0	.0	65.1
E	5.9	5.9	2.0	.0	.0	.0	.0	13.7	4.9	3.9	.0	.0	.0	.0	.0	77.6
SE	1.6	2.3	.6	.0	.0	.0	.0	4.5	2.6	.0	.0	.0	.0	.0	.0	92.5
S	2.7	3.1	1.1	.0	.0	.0	.0	7.0	4.5	.5	.1	.0	.1	.0	.0	87.8
SW	5.5	6.4	1.8	.0	.0	.0	.0	13.6	8.0	1.2	.2	.0	.1	.1	.1	77.0
W	5.5	8.0	1.4	.0	.0	.0	.0	14.6	8.2	2.1	.1	.0	.0	.0	.0	74.8
NW	16.3	13.0	2.0	.0	.0	.0	.0	30.9	6.5	.8	.0	.0	.0	.0	.0	61.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4	4.4	.0	.0	.0	.0	.0	8.9	2.2	.0	.0	.0	.0	.0	.0	88.9
TOT PCT	3.8	4.3	1.3	.0	.0	.0	.0	9.4	5.4	.8	.1	.0	.1	.0	.0	84.3
TOT OBS:	6970															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	BLWG DUST	BLWG SNOW	
00003	2.5	3.6	1.6	.0	.0	.0	.0	7.8	5.8	1.8	.1	.0	.1	.0	.0	84.6
06009	5.2	5.2	2.0	.0	.0	.0	.0	12.2	6.7	1.1	.2	.0	.0	.0	.0	80.0
12015	4.5	4.4	.7	.0	.0	.0	.0	9.5	5.3	.1	.2	.0	.0	.0	.0	84.9
18021	3.4	4.2	.9	.0	.0	.0	.0	8.4	4.2	.3	.1	.0	.2	.1	.1	86.7
TOT PCT	3.9	4.4	1.3	.0	.0	.0	.0	9.5	5.5	.8	.1	.0	.1	.0	.0	84.1
TOT OBS:	7110															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.0	.2	.1	.0	.0	.0	.0	.3	8.8	.1	.0	.3	.7	.6	.0	.2	.1
NE	.0	.2	.0	.0	.0	.0	.0	.3	6.9	.1	.6	.2	.3	.6	.6	.3	.0
E	.1	.4	.1	.0	.0	.0	.0	.6	7.2	.4	.6	.5	.5	.8	.6	.7	.1
SE	.4	5.8	3.9	.1	.0	.0	.0	10.1	10.1	9.9	7.7	9.5	7.6	11.5	7.3	11.4	8.5
S	1.0	24.2	23.7	.4	.0	.0	.0	49.3	10.9	49.0	46.6	46.9	47.1	51.1	54.9	51.1	48.1
SW	.7	17.1	13.3	.4	.0	.0	.0	31.6	10.5	32.0	32.2	33.2	36.1	28.3	31.7	29.8	35.5
W	.4	4.2	1.5	.1	.0	.0	.0	6.0	9.1	7.0	9.0	6.9	6.2	5.0	4.8	5.0	6.3
NW	.1	.8	.2	.0	.0	.0	.0	1.1	8.0	.8	.6	1.4	1.5	1.4	.1	1.0	.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0	.6	2.6	1.1	.0	.7	.0	.5	.6
TOT OBS	360	5419	4392	105	1	0	10277		10.5		2098	156	2098	705	2188	168	2092
TOT PCT	3.5	52.7	42.7	1.0	.0	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	.1	.2	.0	.0	.0	.0	.3	8.8	.1	.4	.5	.2	.0	.2
NE	.1	.1	.0	.0	.0	.0	.3	6.9	.2	.2	.6	.2	.0	.2
E	.3	.2	.0	.0	.0	.0	.6	7.2	.4	.5	.8	.5	.8	.5
SE	2.2	7.0	.9	.0	.0	.0	10.1	10.1	9.8	9.0	11.2	10.6		
S	7.4	36.5	5.3	.0	.0	.0	49.3	10.9	48.9	46.9	51.4	50.3		
SW	5.8	22.7	3.0	.0	.0	.0	31.6	10.5	32.1	33.9	28.6	31.3		
W	1.7	3.9	.4	.0	.0	.0	6.0	9.1	7.1	6.8	5.0	5.3		
NW	.5	.6	.0	.0	.0	.0	1.1	8.0	.7	1.4	1.3	.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.7						.7	.0	.7	.9	.6	.6		
TOT OBS	1949	7324	998	6	0	10277		10.5		2254	2803	2356	2864	
TOT PCT	19.0	71.3	9.7	.1	.0	100.0				100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1854-1973

SEPTEMBER

AREA 0010 MONROVIA
3.9N 11.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	.7	2.1	34.7	41.7	.9	.0	.0	.0	10.4	100.0	2254
06009	.9	3.4	56.7	38.0	1.1	.0	.0	.0	10.1	100.0	2803
12015	.6	3.0	48.6	46.0	1.1	*	.0	.0	10.7	100.0	2356
18021	.0	2.2	50.7	45.6	.9	.0	.0	.0	10.7	100.0	2864
TOT	71	239	5419	4392	105	1	0	10.5			10277
PCT	.7	2.8	52.7	42.7	1.0	*	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	*	*	.1	.2		6.4
NE	.0	.0	.2	.1		7.2
E	.1	.2	.2	.2		5.8
SE	2.3	2.4	4.0	3.0		5.1
S	6.0	8.9	21.3	17.6		5.8
SW	1.6	3.3	11.5	10.7		6.3
W	.2	.6	2.2	1.8		6.4
NW	*	.1	.4	.3		6.5
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.2	.1		4.3
TOT OBS	590	867	2258	1917	5632	5.9
TOT PCT	10.5	15.4	40.1	34.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
.0	*	*	.1	.2	*	.0	.0	.0	.0	.1	
.0	.0	*	.1	.2	*	*	.0	.0	.0	.3	
*	*	.1	.8	2.2	1.1	.7	.1	.1	*	6.4	
.2	*	.6	6.1	12.6	6.5	2.6	.5	.2	.3	24.1	
*	*	.5	3.8	6.4	3.7	1.2	.4	*	.2	10.8	
*	.0	.1	.6	1.3	.6	.2	.1	.0	*	1.9	
.0	*	*	.2	.2	.1	*	*	.0	.0	.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	*	.0	.0	.0	*	.4	
11	7	77	662	1310	682	271	62	17	36	2497	5632
.2	.1	1.4	11.8	23.3	12.1	4.8	1.1	.3	.6	44.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				OR >0
	>10	>5	>2	>1	>1/2	>1/4	>50YD		
* OR >6500	.8	.9	.9	.9	.9	.9	.9	.9	
* OR >5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
* OR >3500	5.8	6.7	6.8	6.8	6.8	6.8	6.8	6.8	
* OR >2000	16.1	18.5	18.9	18.9	18.9	18.9	18.9	18.9	
* OR >1000	35.5	41.0	41.9	42.0	42.0	42.0	42.0	42.0	
* OR >600	44.2	52.0	53.5	53.7	53.7	53.7	53.7	53.7	
* OR >300	44.7	53.0	54.8	55.1	55.1	55.2	55.2	55.2	
* OR >150	44.7	53.1	55.0	55.2	55.3	55.3	55.3	55.3	
* OR >0	44.8	53.3	55.1	55.4	55.5	55.5	55.5	55.5	
TOTAL	2571	3057	3163	3178	3184	3185	3186	3186	

TOTAL NUMBER OF OBS: 5739

PCT FREQ NH <5/8: 44.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.7	6.4	10.8	12.6	11.9	8.9	10.8	11.5	24.3	.1	6018

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1854-1973

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AREA 0010 MONROVIA
3.9N 11.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	
1/2<1	PCP	.0	.0	.0	*	*	.1	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	*	*	.1	*	.0	.0	.0	.2	
1<2	PCP	.0	.0	*	*	.1	.1	*	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	.1	.1	*	.0	.0	.0	.3	
2<5	PCP	*	*	.0	*	.4	.5	.1	.1	.0	.0	1.2	
	NO PCP	.0	.0	.0	.1	.3	.3	.1	*	.0	.0	.7	
	TOT %	*	*	.0	.1	.7	.9	.2	.1	.0	.0	2.0	
5<10	PCP	*	.1	*	.3	1.9	2.0	.4	.1	.0	*	4.9	
	NO PCP	*	.1	.2	1.9	7.8	4.4	.9	.1	.0	.1	15.4	
	TOT %	.1	.2	.3	2.1	9.7	6.4	1.3	.2	.0	.1	20.3	
10+	PCP	*	.0	*	.2	1.3	1.1	.2	.1	.0	*	3.0	
	NO PCP	.2	.2	.4	9.2	40.9	19.2	3.3	.5	.0	.5	74.3	
	TOT %	.2	.2	.5	9.4	42.1	20.3	3.6	.6	.0	.5	77.3	
TOT OBS													6968
TOT PCT		.3	.3	.7	11.7	52.7	27.8	5.0	.9	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.1	*	.0	.0	.0	.2	
1<2	0-3	*	.0	.0	*	*	*	*	.0	.0	*	.1	
	4-10	.0	.0	*	*	.1	.1	*	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	*	.2	.2	.1	.0	.0	*	.5	
2<5	0-3	.0	.0	.0	*	*	*	*	.0	.0	*	.1	
	4-10	*	*	*	.1	.4	.5	.1	.1	.0		1.1	
	11-21	*	.0	.0	*	.5	.6	.1	*	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	*	*	*	.1	.9	1.1	.2	.1	.0	*	2.5	
5<10	0-3	.0	.0	*	.1	.1	.2	.1	.0	.0	.1	.7	
	4-10	*	.1	.1	1.0	4.4	3.4	1.0	.2	.0		10.2	
	11-21	*	*	.1	.8	4.5	2.9	.4	*	.0		8.7	
	22+	*	.0	.0	*	.1	.1	*	*	.0		.3	
	TOT %	.1	.1	.2	1.9	9.1	6.6	1.4	.3	.0	.1	19.8	
10+	0-3	*	*	*	.3	.9	.5	.2	.1	.0	.6	2.7	
	4-10	.2	.1	.3	5.3	20.2	12.7	2.8	.5	.0		42.0	
	11-21	*	.0	.1	3.3	19.2	8.3	.8	.1	.0		31.8	
	22+	.0	.0	.0	*	.2	.1	.0	.0	.0		.4	
	TOT %	.2	.2	.4	8.9	40.5	21.6	3.8	.7	.0	.6	76.9	
TOT OBS													8484
TOT PCT		.3	.3	.7	10.9	50.7	29.7	5.5	1.1	.0	.7	100.0	

PERIOD: (PRIMARY) 1925-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.2	.0	1.3	11.3	22.4	11.1	4.2	1.0	.4	1.0	52.9	47.1	1349
06009	.3	.4	1.1	14.2	26.6	14.2	5.3	.8	.4	.5	63.7	36.3	1405
12015	.2	.1	1.7	11.6	21.6	11.2	5.1	1.5	.4	.6	53.9	46.1	1593
18021	.1	.1	1.5	9.3	20.3	11.0	4.2	.9	.1	.4	47.9	52.1	1510
TOT PCT	12 .2	8 .1	82 1.4	675 11.5	1327 22.7	693 11.8	276 4.7	63 1.1	18 .3	36 .6	3190 54.5	2667 45.5	5857 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.2	.4	2.2	19.8	77.4	1965
06009	.2	.3	.6	2.9	23.5	72.5	2245
12015	*	.2	.5	3.0	15.7	80.4	2079
18021	.0	.1	.5	2.3	20.2	76.9	2336
TOT PCT	5 .1	16 .2	44 .5	226 2.6	1716 19.9	6618 76.7	8625 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.2	1.5	13.9	40.5	45.7	1320
06009	.3	1.9	17.7	47.1	35.2	1381
12015	.2	2.2	15.2	40.0	44.8	1562
18021	.1	1.8	12.4	36.7	50.9	1476
TOT PCT	12 .2	106 1.8	848 14.8	2352 41.0	2539 44.2	5739 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.0	.0	.0	1	*
85/89	.0	.0	.0	.0	.2	.1	.1	.0	25	.4
80/84	.0	.0	.0	.1	.8	8.2	4.7	.8	890	14.6
75/79	.0	.0	.0	.1	.9	19.2	40.0	13.6	4510	73.8
70/74	.0	.0	.0	.0	*	1.0	6.2	4.0	685	11.2
TOTAL	0	0	0	10	118	1748	3115	1120	6111	100.0
PCT	.0	.0	.0	.2	1.9	28.6	51.0	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
85/89	.0	.0	*	*	.2	*	.1	.0	.0	.0
80/84	.1	.1	.1	1.3	7.1	5.0	.8	.1	.0	.1
75/79	.1	.2	.4	7.5	39.6	21.2	3.8	.7	.0	.3
70/74	.1	*	.2	2.8	6.4	1.3	.2	.1	.0	.1
TOTAL	.3	.3	.7	11.6	53.3	27.5	4.8	.9	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	81	79	77	73	71	67	76.6	2292
06009	86	81	79	77	73	71	68	76.4	2833
12015	91	85	83	79	75	73	67	78.6	2372
18021	89	84	81	78	74	72	70	77.6	2874
TOT	91	83	81	77	73	72	67	77.3	10371

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	.9	19.4	58.6	21.0	84	1487
06009	.0	.0	.5	19.3	55.3	24.9	85	1539
12015	.0	.6	4.3	43.5	39.4	12.3	81	1573
18021	.0	.1	1.9	31.2	50.9	15.9	83	1626
TOT	0	11	119	1777	3169	1149	83	6225

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	.0	*	.1	*	*	10	.0	.2
7/8	.0	.0	*	.1	.2	.1	*	31	*	.5
6	.0	.0	*	.1	.1	*	*	23	*	.3
5	.0	.0	*	.3	.4	.1	.0	54	.0	.8
4	.0	.0	.1	.6	.4	.1	.0	79	.0	1.2
3	.0	*	.3	.8	.9	*	.0	125	.0	2.0
2	.0	.0	.5	1.7	1.3	*	.0	224	*	3.5
1	.0	*	1.6	4.6	1.7	*	.0	512	.0	8.0
0	.0	.3	2.7	10.8	1.4	.0	.0	959	*	15.0
-1	.0	.5	5.0	17.7	.6	.0	.0	1512	*	23.7
-2	.0	.2	7.0	13.3	.4	.0	.0	1334	.0	20.9
-3	.0	.2	5.6	5.3	.2	.0	.0	721	*	11.3
-4	*	.1	3.4	2.2	.1	.0	.0	375	.0	5.9
-5	.0	.2	2.0	1.3	*	.0	.0	221	.0	3.5
-6	.0	.1	1.0	.4	.0	.0	.0	96	.0	1.5
-7/-8	.0	.1	.7	.3	*	.0	.0	72	.0	1.1
-9/-10	.0	*	.1	*	.0	.0	.0	12	.0	.2
-11/-13	.0	*	.1	.0	.0	.0	.0	5	.0	.1
-14/-16	.0	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	1	111	1926	3796	495	36	3	6368	10	6358
PCT	*	1.7	30.2	59.6	7.8	.6	*	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1	*	.2	.0	.0	.0	.0	.2
3-4	.0	*	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
5-6	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	.0	.0	.0	.3	*	.2	*	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2	.2	.7	*	.0	.0	.0	.9
1-2	.1	.2	*	.0	.0	.0	.2	.2	3.1	.9	.0	.0	.0	4.2
3-4	.1	.1	*	.0	.0	.0	.2	*	1.6	1.9	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.1	*	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	*	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	.1	.0	.0	.0	.6	.5	6.0	4.4	.1	.0	.0	11.0

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.1	.0	.0	.0	2.5	.3	1.6	.2	.0	.0	.0	2.1
1-2	.0	14.3	4.0	.0	.0	.0	19.5	.2	8.3	2.3	.0	.0	.0	10.8
3-4	.0	7.5	11.2	.1	.0	.0	18.8	.0	4.5	5.4	.1	.0	.0	10.1
5-6	.0	1.4	8.5	.2	.0	.0	10.2	.0	.5	7.6	.1	.0	.0	3.3
7	.0	.1	2.2	.0	.0	.0	2.4	.0	.1	.7	.0	.0	.0	.7
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	25.3	27.2	.4	.0	.0	54.0	.6	15.1	11.4	.2	.0	.0	27.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2	
1-2	.3	1.8	.2	.0	.0	.0	2.3	.0	.3	.1	.0	.0	.0	.4	
3-4	.0	1.1	.6	.0	.0	.0	1.7	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.2	.3	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.5	1.1	.0	.0	.0	4.9	.1	.6	.1	.0	.0	.0	.8	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.5	5.0	.3	.0	.0	.0	7.9	
1-2	1.6	28.3	8.0	.0	.0	.0	37.8	
3-4	.2	14.8	19.0	.1	.0	.0	34.1	
5-6	.0	2.5	12.4	.3	.0	.0	15.3	
7	.0	.4	3.3	.1	.0	.0	3.8	
8-9	.0	.0	.7	.1	.0	.0	.8	
10-11	.0	.1	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	51.1	43.8	.7	.0	.0	100.0	3785

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	10.2	14.8	8.0	3.4	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1737	4
6-7	.0	1.0	8.6	10.8	4.3	1.7	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1245	5
8-9	.0	.6	2.8	3.6	2.9	1.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	541	6
10-11	.0	.4	.8	1.4	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	5
12-13	.0	.0	1.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
>13	.0	.0	.0	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
MEAN	1.7	3.5	5.3	2.6	.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	651	3
TOTAL	127	707	1512	1228	584	211	84	29	12	0	0	0	0	0	0	0	0	0	0	4494	4
PCT	2.8	15.7	33.6	27.3	13.0	4.7	1.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1863-1973

OCTOBER

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	12.8	11.5	2.7	.0	.0	.0	.0	27.0	7.5	5.8	.9	.0	.0	.0	61.9
NE	15.4	6.3	2.8	.0	.0	.0	.0	24.6	10.2	7.7	.7	.0	.0	.0	58.9
E	9.7	6.2	.7	.0	.0	.0	.0	16.6	7.5	3.8	.0	.0	.0	.0	73.5
SE	2.0	5.7	.0	.0	.0	.0	.0	8.3	4.6	2.7	.3	.0	.1	.0	84.5
S	2.7	4.4	1.3	.0	.0	.0	*	8.3	6.7	2.5	.2	.0	*	*	82.3
SW	6.8	8.3	1.7	.0	.0	.0	.0	16.7	8.9	3.8	.1	.0	.1	*	70.8
W	10.1	8.3	1.5	.0	.0	.0	.0	19.8	7.4	6.8	.0	.0	.0	.0	66.8
NW	10.6	7.5	4.2	.0	.0	.0	.0	22.3	4.7	9.9	.0	.0	.9	.0	63.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	1.8	1.8	.0	.0	.0	.0	6.7	7.3	10.3	.0	.0	.6	.0	75.2
TOT PCT	4.1	5.6	1.3	.0	.0	.0	*	11.1	6.8	3.3	.2	.0	.1	*	78.9
TOT OBS:	7167														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	3.9	4.9	1.5	.0	.0	.0	.1	10.2	6.9	8.2	.1	.0	.2	.0	74.7
06009	6.2	7.0	1.5	.0	.0	.0	.0	14.7	6.6	5.0	.4	.0	.0	.1	73.7
12015	4.3	5.6	1.2	.0	.0	.0	.0	11.1	8.3	.2	.1	.0	.0	.0	80.6
18021	2.6	5.3	.9	.0	.0	.0	.0	8.7	6.0	1.2	.3	.0	.1	.0	84.1
TOT PCT	4.2	5.7	1.3	.0	.0	.0	*	11.1	6.9	3.7	.2	.0	.1	*	78.4
TOT OBS:	7506														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.5	.1	*	*	.0		.8	6.8		.3	1.1	.7	1.6	1.8	1.0	.4	.2
NE	.2	.6	.1	*	.0	.0		.9	7.0		.5	1.0	1.0	1.6	1.7	.7	.6	.2
E	.3	1.3	.3	*	.0	.0		1.9	7.4		1.4	1.6	1.7	2.5	2.8	1.6	1.8	1.6
SE	1.0	9.7	5.0	*	.0	.0		15.8	9.1		15.5	15.5	15.3	14.2	17.0	13.6	17.0	13.0
S	2.6	29.8	15.6	.1	.0	.0		48.2	9.3		47.9	52.6	48.0	45.1	48.3	60.5	48.9	46.7
SW	1.6	15.4	5.1	.1	.0	.0		22.2	8.4		24.0	22.3	22.8	23.3	18.5	18.9	22.1	26.1
W	.7	4.0	.7	*	.0	.0		5.5	7.2		6.0	1.9	5.4	5.2	4.2	2.8	5.7	8.6
NW	.3	1.4	.2	.0	.0	.0		1.9	6.8		1.8	2.1	2.1	3.1	2.3	.3	1.4	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		2.8	1.9	3.0	3.4	3.3	.6	2.0	1.7
TOT OBS	1026	6660	2879	32	1	0	10598		8.6		2199	156	2063	731	2252	171	2207	819
TOT PCT	9.7	62.8	27.2	.3	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.5	.3	*	*	.0	.0	.8	6.8	.3	.9	1.8	.3
NE	.5	.4	*	.0	.0	.0	.9	7.0	.5	1.2	1.7	.5
E	.9	1.0	*	.0	.0	.0	1.9	7.4	1.4	1.9	2.7	1.7
SE	4.4	10.9	.5	.0	.0	.0	15.8	9.1	15.5	15.0	16.4	15.9
S	12.7	33.6	1.9	.0	.0	.0	48.2	9.3	48.2	47.2	49.2	48.3
SW	8.1	13.2	.9	.0	.0	.0	22.2	8.4	23.9	22.9	18.5	23.2
W	2.9	2.4	.1	.0	.0	.0	5.5	7.2	5.7	5.4	4.1	6.5
NW	1.0	.9	*	.0	.0	.0	1.9	6.8	1.8	2.3	2.1	1.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.7	3.1	3.1	1.9
TOT OBS	3577	6638	377	6	0	10598		8.6	2355	2794	2423	3026
TOT PCT	33.8	62.6	3.6	.1	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.7	5.0	65.3	26.7	.3	.0	.0	8.7	100.0	2355
0600	3.1	8.5	63.7	24.2	.5	*	.0	8.2	100.0	2794
1200	3.1	8.2	59.4	28.9	.2	.0	.0	8.6	100.0	2423
1800	1.9	6.1	62.9	28.9	.2	.0	.0	8.8	100.0	3026
TOT	286	740	6660	2879	32	1	0	8.6		10598
PCT	2.7	7.0	62.8	27.2	.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.4	.3		5.8
NE	*	.2	.4	.4		6.1
E	.3	.4	.7	.6		5.5
SE	2.2	3.8	7.3	3.3		5.2
S	5.8	12.4	23.3	11.7		9.4
SW	1.6	3.1	8.3	5.9		5.9
W	.3	.7	1.7	1.1		5.9
NW	.1	.3	.5	.4		5.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.8	.8	.4		4.8
TOT OBS	616	1240	2473	1377	5706	5.5
TOT PCT	10.8	21.7	43.3	24.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	*	*	.1	.1	.1	.1	.1	*	.0	.0	.4	
NE	*	.0	*	.1	.1	.1	*	*	*	*	.5	
E	*	*	*	.3	.3	.2	.1	.0	*	.0	1.1	
SE	.0	*	.1	1.5	3.4	1.6	.7	.2	.1	.1	8.9	
S	.1	.1	.6	5.4	10.5	6.2	1.8	.6	.2	.3	27.4	
SW	*	*	.5	2.1	4.0	2.1	.8	.3	*	.1	8.9	
W	*	*	.1	.5	.6	.4	.1	.1	*	*	1.9	
NW	.0	*	.1	.1	.2	.2	.1	.1	.0	*	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.4	.1	.0	*	*	.0	1.7	
TOT OBS	8	15	86	588	1116	633	207	73	18	30	2932	5706
TOT PCT	.1	.3	1.5	10.3	19.6	11.1	3.6	1.3	.3	.5	51.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.7	.8	.8	.8	.8	.8	.8	.8
>5000	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1
>3500	4.9	5.5	5.6	5.6	5.6	5.6	5.6	5.6
>2000	14.0	16.0	16.4	16.4	16.4	16.4	16.5	16.5
>1000	30.5	34.9	35.6	35.7	35.8	35.8	35.8	35.8
>600	38.0	44.6	45.7	45.9	46.0	46.1	46.1	46.1
>300	38.9	45.8	47.1	47.4	47.5	47.5	47.5	47.5
>150	39.0	46.0	47.4	47.6	47.8	47.8	47.8	47.8
>0	39.0	46.1	47.5	47.8	47.9	47.9	48.0	48.0
TOTAL	2326	2747	2832	2847	2855	2858	2860	2860

TOTAL NUMBER OF OBS: 5061

PCT FREQ NH <5/8: 52.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
2.0	6.1	13.9	15.6	14.4	9.6	11.1	10.5	16.6	6316

PERIOD: (PRIMARY) 1925-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	.0	*	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	.0	*	*	*	*	.0	.0	.1	
1/2<1	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	*	*	*	*	*	*	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.1	*	*	*	.0	.0	.2	
	NO PCP	.0	*	.0	*	.0	*	.0	.0	.0	.0	.1	
	TOT %	.0	*	.0	*	.1	.1	*	*	.0	.0	.3	
2<5	PCP	.1	.1	*	.1	.4	.3	.1	*	.0	*	1.0	
	NO PCP	*	*	*	*	.2	.1	*	*	.0	*	.5	
	TOT %	.1	.1	.1	.1	.6	.4	.1	*	.0	*	1.5	
5<10	PCP	.1	.1	.2	.7	2.0	1.4	.4	.2	.0	*	5.1	
	NO PCP	.1	.1	.4	2.8	6.8	2.7	.7	.2	.0	.3	14.1	
	TOT %	.2	.2	.5	3.4	8.8	4.1	1.1	.4	.0	.4	19.2	
10+	PCP	.1	*	.1	.6	1.8	1.4	.3	.1	.0	.1	4.6	
	NO PCP	.5	.6	1.3	13.1	40.4	13.1	2.6	.9	.0	1.8	74.2	
	TOT %	.5	.6	1.4	13.7	42.2	14.5	2.9	1.0	.0	1.9	78.8	
TOT OBS													7160
TOT PCT		.8	1.0	2.0	17.4	51.8	19.2	4.1	1.5	.0	-2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	.0	*	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	*	*	*	.0	*	.0	.0	*	
	4-10	*	*	*	*	*	*	.0	*	.0	.0	.1	
	11-21	.0	.0	*	.0	*	*	.0	*	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	.1	*	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	*	
	4-10	*	*	*	*	.1	*	*	*	.0	.0	.3	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	.1	.1	*	*	.0	*	.4	
2<5	0-3	*	*	*	.0	*	.1	*	*	.0	.1	.2	
	4-10	.1	.1	*	.1	.5	.5	.1	*	.0		1.3	
	11-21	*	*	*	.1	.3	.1	*	*	.0		.6	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	.1	.1	.2	.8	.7	.1	*	.0	.1	2.2	
5<10	0-3	*	*	.1	.2	.6	.4	.2	.1	.0	.4	1.9	
	4-10	.1	.1	.3	1.9	5.3	3.0	.7	.3	.0		11.8	
	11-21	.0	*	.2	1.0	2.4	.8	.1	.1	.0		4.6	
	22+	*	*	*	*	.0	*	*	.0	.0	.0	.1	
	TOT %	.2	.2	.5	3.1	8.3	4.2	1.1	.4	.0	.4	18.4	
10+	0-3	.2	.1	.2	.8	2.1	1.2	.4	.2	.0	2.3	7.5	
	4-10	.4	.5	1.0	8.4	25.7	11.0	2.3	.9	.0		50.2	
	11-21	.1	*	.1	4.2	12.9	3.3	.3	.1	.0		21.0	
	22+	.0	.0	.0	*	.1	*	*	.0	.0	.0	.1	
	TOT %	.6	.6	1.4	13.3	40.8	15.6	3.0	1.1	.0	2.3	78.8	
TOT OBS													8815
TOT PCT		.9	1.0	2.0	16.7	50.0	20.7	4.3	1.7	.0	2.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7499	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.1	.1	.9	9.3	18.9	9.5	3.7	1.5	.2	.4	44.7	55.3	1445
06609	.1	.5	2.6	12.1	22.4	12.0	3.9	1.5	.3	.6	56.0	44.0	1471
12615	.2	.4	1.3	10.0	17.5	10.4	3.2	1.4	.5	.7	45.6	54.4	1663
18621	.1	.2	.8	8.6	16.8	10.3	2.7	.6	.1	.3	40.5	59.5	1569
TOT	8	18	86	613	1156	649	209	76	18	31	2864	3284	6148
PCT	.1	.3	1.4	10.0	18.8	10.6	3.4	1.2	.3	.5	46.6	53.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	*	.2	.3	1.9	18.4	79.1	2094
06609	.2	.3	.5	2.6	22.4	73.8	2350
12615	.1	.2	.4	2.2	15.3	81.9	2224
18621	.1	.1	.4	1.9	17.7	79.9	2485
TOT	11	18	36	197	1693	7198	9153
PCT	.1	.2	.4	2.2	18.5	78.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	.1	1.2	11.8	34.7	53.6	1391
06609	.1	3.6	17.2	40.4	42.4	1430
12615	.2	2.0	13.1	33.7	53.3	1630
18621	.1	1.3	10.9	31.3	57.8	1510
TOT	8	121	787	2082	3092	5961
PCT	.1	2.0	13.2	34.9	51.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	*	.0	.0	2	*
85/89	.0	.0	*	.0	.3	.7	.1	*	74	1.2
80/84	.0	.0	.0	*	.9	13.5	13.6	1.8	1886	29.9
75/79	.0	.0	.0	.0	.3	11.1	40.0	13.2	4073	64.6
70/74	.0	.0	.0	.0	.0	.2	2.4	1.7	274	4.3
TOTAL	0	0	1	2	94	1611	3543	1058	6309	100.0
PCT	.0	.0	*	*	1.5	24.5	56.2	16.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	*	.0	.0	.0	.0
*	*	.1	.3	.4	.2	.1	*	.0	.1
.3	.5	.9	5.0	14.3	5.8	1.2	.6	.0	1.2
.4	.4	.9	10.5	35.6	12.5	2.6	.7	.0	1.0
.1	*	.1	1.2	2.2	.4	.2	*	.0	.1
.8	.9	2.1	17.0	52.6	18.9	4.0	1.4	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	86	82	81	78	74	73	68	77.8	2427
06609	88	82	81	78	74	73	67	77.6	2891
12615	91	87	85	80	75	74	71	80.0	2482
18621	91	85	82	79	75	73	71	79.0	3066
TOT	91	85	83	79	75	73	67	78.6	10866

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.1	.3	15.3	65.7	18.7	85	1599
06609	.0	.0	.1	13.7	62.5	23.7	85	1622
12615	.0	.1	3.9	41.1	42.6	12.3	81	1677
18621	.0	.1	1.5	31.2	53.9	13.4	83	1695
TOT	0	3	98	1684	3692	1116	83	6593

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1863-1973

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AREA 0010 MONROVIA
4.0N 11.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 66	69 72	73 76	77 80	81 84	85 88	89 92	TOT FOG	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	*	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	8	.0	.1
9/10	.0	.0	.0	*	.1	.1	*	13	.0	.2
7/8	.0	.0	.0	.1	.1	.1	*	24	.0	.4
6	.0	.0	*	*	.2	.2	*	32	.0	.5
5	.0	.0	*	.1	.3	.3	*	55	.0	.8
4	.0	.0	*	.3	.7	.7	*	85	*	1.3
3	.0	.0	.1	.7	.9	.3	*	128	.0	1.9
2	.0	.0	.2	1.2	2.0	.2	.0	236	.0	3.5
1	.0	*	.8	3.2	2.8	.1	.0	465	*	6.9
U	.0	*	1.8	7.7	4.0	*	.0	914	*	13.6
-1	.0	*	2.7	16.3	3.4	*	.0	1504	.1	22.4
-2	.0	.1	3.2	15.9	2.0	.0	.0	1413	*	21.0
-3	.0	*	3.0	10.3	.7	*	.0	938	*	14.0
-4	.0	*	2.1	3.7	.3	.0	.0	410	.0	6.1
-5	*	*	1.9	1.7	.3	.0	.0	263	.0	3.9
-6	.0	*	.8	.7	*	.0	.0	104	.0	1.6
-7/-8	.0	.1	.7	.5	.0	.0	.0	86	.0	1.3
-9/-10	.0	*	.2	*	.0	.0	.0	21	.0	.3
-11/-13	.0	*	.1	.0	.0	.0	.0	6	.0	.1
TOTAL	1		1189	4180	1184	111	13	6706	13	6693
PCT	*	.4	17.7	62.3	17.7	1.7	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.2		.1	.1	.0	.0	.0	.0	.2	
1-2	.0	.4	*	.0	.0	.0	.4		.1	.3	.1	.0	.0	.0	.4	
3-4	.0	.1	.1	*	.0	.0	.2		.0	.1	*	.0	.0	.0	.2	
5-6	.0	.1	.0	.0	.0	.0	.1		.0	.0	.0	*	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.6	.1	*	.0	.0	.8		.1	.5	.1	*	.0	.0	.8	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0	.2		.2	.7	.1	.0	.0	.0	1.0	
1-2	.1	.7	.1	.0	.0	.0	.9		.4	6.0	1.2	.0	.0	.0	7.6	
3-4	.0	.4	.2	.0	.0	.0	.6		*	2.3	2.5	*	.0	.0	4.9	
5-6	.0	*	.1	.0	.0	.0	.1		.1	.4	1.0	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0		.0	*	.2	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	*	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.2	.4	.0	.0	.0	1.7		.7	9.5	5.1	*	.0	.0	15.4	

PERIOD: (OVER-ALL) 1963-1973

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AREA 0010 MONROVIA
4.0N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.6	.3	.0	.0	.0	5.0	.5	1.4	*	.0	.0	.0	2.0
1-2	1.0	21.3	5.6	.0	.0	.0	27.9	.4	8.0	.9	.0	.0	.0	9.4
3-4	.1	8.9	8.3	.0	.0	.0	17.4	.0	3.0	2.0	.0	.0	.0	5.0
5-6	.0	1.0	3.7	.0	.0	.0	4.7	.0	.3	.7	.0	.0	.0	1.0
7	.0	.1	.9	.0	.0	.0	1.0	.0	*	.1	*	.0	.0	.1
8-9	.0	.1	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	34.9	19.0	.0	.0	.0	56.1	1.0	12.8	3.8	*	.0	.0	17.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	.0	.0	.0	.0	.9	.1	.1	.0	.0	.0	.0	.1	
1-2	.3	1.5	.1	.0	.0	.0	2.0	.1	.4	*	.0	.0	.0	.5	
3-4	.0	.4	.1	.0	.0	.0	.5	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	*	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1	
7	.0	.0	*	*	.0	.0	*	.0	*	.0	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	2.7	.3	*	.0	.0	3.5	.1	.7	.2	.0	.0	.0	1.0	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	7.1	.4	.0	.0	.0	14.2	
1-2	3.2	37.7	7.9	.0	.0	.0	48.8	
3-4	.2	14.9	12.9	.1	.0	.0	28.1	
5-6	.1	1.7	5.5	*	.0	.0	7.3	
7	.0	.2	1.2	.1	.0	.0	1.5	
8-9	.0	.1	*	.0	.0	.0	.1	
10-11	.0	.0	*	.0	.0	.0	*	
12	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.2	61.8	27.9	.1	.0	.0	100.0	3782

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	15.2	15.6	6.0	1.6	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1923	3
6-7	*	2.0	9.2	8.7	3.7	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1158	4
8-9	.0	.7	3.3	3.6	1.6	.6	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	470	5
10-11	.0	.6	1.3	1.2	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	4
12-13	.0	.0	1.1	.6	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
>13	.0	.0	.0	.6	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
INDET	3.5	5.6	5.0	2.7	.6	.1	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	825	3
TOTAL	258	1132	1671	1100	401	91	33	9	7	0	0	0	0	0	0	0	0	0	0	4702	4
PCT	5.5	24.1	35.5	23.4	8.5	1.9	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1863-1973

NOVEMBER

AREA 0010 MONROVIA
3.9N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WHD DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	9.5	2.0	1.9	.0	.0	.0	.0	14.0	6.4	9.2	.9	.0	.0	.0	70.9	
NE	7.8	10.2	1.3	.0	.0	.0	.0	19.3	6.3	11.0	.7	.0	.7	.0	63.8	
E	6.0	6.0	3.0	.0	.0	.0	.0	14.4	6.1	5.9	.0	.0	.0	.0	75.3	
SE	1.8	4.6	.8	.0	.0	.0	.0	7.4	5.1	3.1	.1	.0	.1	.0	84.6	
S	1.9	4.3	.9	.0	.0	.0	.0	7.0	4.2	4.2	.3	.0	.1	.0	84.6	
SW	5.2	5.3	.7	.0	.0	.0	.0	11.1	5.3	7.5	1.0	.0	.3	.0	75.9	
W	6.1	6.0	1.6	.0	.0	.0	.0	13.7	3.0	9.8	.6	.0	.4	.0	73.8	
NW	6.0	4.3	.0	.0	.0	.0	.0	10.3	3.4	13.0	.0	.0	.0	.0	75.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	2.4	.6	.0	.0	.0	.0	3.3	3.9	10.0	.0	.0	.3	.0	82.5	
TOT PCT	2.6	4.7	1.0	.0	.0	.0	.0	8.2	4.7	5.0	.3	.0	.2	.0	82.3	
TOT OBS:	6938															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.2	3.4	.8	.0	.0	.0	.0	6.5	5.2	10.9	.4	.0	.1	.0	77.4
06009	4.6	6.6	1.1	.0	.0	.0	.0	12.1	5.0	8.9	.3	.0	.2	.0	75.4
12015	2.6	4.9	1.3	.0	.0	.0	.0	8.6	5.4	.3	.1	.0	.1	.0	85.6
18021	1.7	3.6	.6	.0	.0	.0	.0	5.9	3.2	1.5	.4	.0	.2	.0	89.0
TOT PCT	2.8	4.6	.9	.0	.0	.0	.0	8.3	4.7	5.3	.3	.0	.1	.0	82.0
TOT OBS:	7440														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	.9	.1	*	.0	.0		1.5	5.4		1.2	1.0	1.6	1.9	2.3	1.2	1.2	.9
NE	.3	1.2	.2	*	.0	.0		1.8	7.2		1.3	1.0	2.0	2.1	2.7	1.5	1.5	.8
E	.8	2.4	.5	*	.0	.0		3.7	6.8		2.3	1.9	3.3	5.8	5.5	1.7	3.3	2.5
SE	2.2	17.8	7.2	.1	*	.0		27.3	8.8		27.8	18.9	26.6	23.9	29.3	30.8	28.7	22.8
S	3.6	28.5	9.5	.1	.0	.0		41.7	8.3		40.8	47.4	41.3	41.3	40.8	50.5	42.5	43.1
SW	1.7	10.1	1.6	.1	.0	.0		13.3	7.1		14.3	16.0	13.0	14.2	9.7	7.7	13.9	19.2
W	.8	2.6	.2	*	.0	.0		3.6	6.1		4.5	3.8	3.9	3.6	2.4	2.4	3.3	4.9
NW	.5	1.3	.1	*	.0	.0		2.0	5.8		1.7	3.0	2.3	2.5	2.3	1.4	1.6	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0		6.1	6.9	6.0	4.6	5.1	2.7	3.9	3.6
TOT OBS	1674	7024	2104	35	1	0	10838		7.6		2213	144	2133	802	2242	146	2267	891
TOT PCT	15.4	64.8	19.4	.3	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.1	.4	*	.0	.0	1.5	5.4	1.2	1.7	2.2	1.1		
NE	1.0	.7	.1	*	.0	1.8	7.2	1.3	2.0	2.6	1.3		
E	2.1	1.5	.1	*	.0	3.7	6.8	2.3	4.0	5.3	3.1		
SE	8.2	18.2	.9	*	.0	27.3	8.8	27.2	25.9	29.4	27.0		
S	14.7	26.1	.9	*	.0	41.7	8.3	41.2	41.3	41.4	42.6		
SW	6.9	6.2	.2	.0	.0	13.3	7.1	14.4	13.3	9.5	15.4		
W	2.3	1.3	*	.0	.0	3.6	6.1	4.4	3.8	2.4	3.8		
NW	1.4	.6	*	.0	.0	2.0	5.8	1.7	2.4	2.2	1.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.1					5.1	.0	6.2	5.6	5.0	3.8		
TOT OBS	4647	5942	240	9	0	10838	7.6	2357	2935	2388	3158		
TOT PCT	42.9	54.8	2.2	.1	0		100.0	100.0	100.0	100.0	100.0		

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3.9N 11.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	6.2	9.0	65.8	18.6	.3	.0	.0	7.6	100.0	2357
0600	5.0	10.9	66.1	18.8	.5	.0	.0	7.3	100.0	2935
1200	5.0	10.7	61.7	22.3	.2	*	.0	7.8	100.0	2388
1800	3.9	10.0	65.1	20.2	.2	.0	.0	7.8	100.0	3158
TOT	550	1124	7024	2104	35	1	0	7.6		10838
PCT	5.1	10.4	64.8	19.4	.3	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.4	.4	.5	.4		5.0
NE	.3	.3	.7	.6		5.4
E	.5	.7	1.5	1.2		5.6
SE	4.2	8.9	13.5	4.8		5.0
S	5.3	12.4	18.9	6.4		5.0
SW	1.4	2.4	4.2	1.7		5.1
W	.4	.6	.8	.4		4.9
NW	.3	.2	.6	.2		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.0	1.4	.6		4.1
TOT OBS	795	1542	2356	915	5608	
TOT PCT	14.2	27.5	42.0	16.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
N	.0	.0	.1	.2	.2	*	*	.1	.0	1.0		
NE	.0	*	.2	.3	.2	*	*	*	.0	1.0		
E	*	.0	*	.5	.6	.4	.3	*	.0	*	1.9	
SE	*	*	2.2	5.1	7.7	1.1	.2	.1	.1	19.5		
S	.1	*	.4	3.3	7.4	3.8	1.5	.3	.1	1	26.0	
SW	.0	*	.1	.6	1.7	1.1	.3	*	*	.1	5.9	
W	.0	.0	*	.2	.2	.3	.1	*	.0	.0	1.5	
NW	.0	.0	.0	*	.2	.2	.1	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.3	.4	.2	*	*	.0	*	3.7	
TOT OBS	8	6	51	418	904	510	197	37	17	3443		5608
TOT PCT	.1	.1	.9	7.5	16.1	9.1	3.5	.7	.3	.3	61.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.4	.6	.6	.6	.6	.6	.6	.6
>5000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	4.1	4.6	4.7	4.7	4.7	4.7	4.7	4.7
>2000	11.8	13.4	13.7	13.7	13.7	13.7	13.7	13.7
>1000	25.7	29.0	29.6	29.6	29.7	29.7	29.7	29.7
>600	31.5	36.1	36.9	36.9	37.0	37.0	37.1	37.1
>300	32.1	36.9	37.7	37.8	37.9	37.9	38.0	38.0
>150	32.2	37.0	37.8	37.9	38.0	38.0	38.1	38.1
>0	32.2	37.1	38.0	38.1	38.2	38.2	38.2	38.2
TOTAL	1928	2219	2270	2276	2291	2293	2284	2284

TOTAL NUMBER OF OBS: 5979

PCT FREQ NH <5/8: 61.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
2.6	7.4	16.1	19.3	16.1	10.1	10.2	7.8	10.4	.1	6310

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3.9N 11.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	*	.0	*	.1	.0	.0	.0	.0	*	.1	
	TOT %	.0	*	.0	.1	.1	*	*	.0	.0	*	.2	
1<2	PCP	.0	.0	*	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
2<5	PCP	*	.1	.1	.1	.2	.2	.1	*	.0	.0	.7	
	NO PCP	.0	.0	*	.1	.1	*	*	*	.0	.0	.2	
	TOT %	*	.1	.1	.2	.3	.2	.1	*	.0	.0	1.0	
5<10	PCP	.1	.2	.2	1.1	1.3	.6	.1	.1	.0	.1	3.8	
	NO PCP	.2	.3	.6	3.5	5.2	1.5	.5	.3	.0	.6	12.6	
	TOT %	.3	.5	.8	4.5	6.5	2.1	.5	.3	.0	.7	16.4	
10+	PCP	.1	.1	.2	1.0	1.5	.3	.1	*	.0	*	3.5	
	NO PCP	1.1	1.3	2.8	25.1	34.6	7.3	1.6	1.1	.0	4.0	78.8	
	TOT %	1.2	1.4	3.0	26.2	36.1	7.6	1.7	1.1	.0	4.0	82.3	
TOT OBS													6936
TOT PCT													1.5 1.9 4.0 31.0 43.0 9.9 2.4 1.5 .0 4.8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	11-21	.0	.0	*	*	*	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	.0	*	.1	.0	*	.0	.0	.1		
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	22+	*	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	TOT %	*	*	.0	.1	.1	*	*	*	.0	*	.2	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	*	*	.1	*	*	.0	.0	.0	.2	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	*	*	.1	*	*	.0	.0	.2	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	*	*	*	.2	.3	.2	.1	*	.0	.0	.9	
	11-21	.0	*	*	.1	.1	*	*	.0	.0	.3		
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	.1	.1	.3	.4	.3	.2	.1	.0	.1	1.5	
5<10	0-3	.1	.1	.1	.4	.5	.3	.2	.1	.0	.8	2.5	
	4-10	.2	.3	.5	2.4	3.9	1.7	.4	.2	.0	.9	9.7	
	11-21	*	.1	.1	1.3	1.5	.3	.1	.1	.0	.3	3.4	
	22+	*	*	*	*	*	*	.0	.0	.0	.1	.1	
	TOT %	.3	.4	.8	4.1	5.9	2.3	.7	.3	.0	.8	15.7	
10+	0-3	.3	.3	.6	1.8	2.9	1.2	.5	.4	.0	4.3	12.4	
	4-10	.6	1.0	1.9	16.6	24.7	6.9	1.6	.8	.0	54.2		
	11-21	.1	.1	.3	6.2	8.0	1.0	.1	.1	.0	15.8		
	22+	.0	.0	*	*	*	*	.0	.0	.0	.1	.1	
	TOT %	1.0	1.4	2.9	24.6	35.6	9.1	2.2	1.3	.0	4.3	82.4	
TOT OBS													8720
TOT PCT													1.4 1.9 3.8 29.2 41.9 11.7 3.1 1.8 .0 5.2 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00503	.1	.1	.9	6.1	14.4	8.6	2.3	.4	.2	.2	33.5	66.5	1476
06509	.3	.1	1.5	9.1	14.3	9.8	3.7	.9	.3	.3	44.3	55.7	1487
12515	.1	.1	.8	7.8	16.2	8.5	3.7	.7	.4	.2	38.5	61.5	1621
18521	.1	.1	.4	5.7	13.1	8.1	3.9	.4	.1	.4	32.3	67.7	1583
TOT	8	6	54	442	954	540	213	97	17	18	2289	3878	6167
PCT	.1	.1	.9	7.2	15.5	8.8	3.5	.6	.3	.3	37.1	62.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00503	*	.2	*	1.5	14.9	83.4	2133
06509	.1	.1	.4	1.9	20.8	76.8	2406
12515	.1	.2	.3	1.6	11.7	86.0	2147
18521	*	.2	.1	.9	15.7	83.0	2536
TOT	7	16	19	134	1467	7579	9222
PCT	.1	.2	.2	1.5	15.9	82.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00503	.1	1.2	8.1	26.8	65.1	1421
06509	.3	1.9	12.4	33.1	54.4	1446
12515	.1	1.4	10.1	29.6	60.4	1580
18521	.1	.5	6.7	26.7	66.6	1532
TOT	8	75	556	1736	3687	5979
PCT	.1	1.3	9.3	29.0	61.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	*	.0	.0	11	.2
85/89	.0	.0	.0	*	.6	1.9	.3	.1	180	2.9
80/84	.0	.0	.0	.0	.7	20.7	24.3	3.3	2999	49.1
75/79	.0	.0	.0	.0	.1	5.6	31.4	9.4	2846	46.6
70/74	.0	.0	.0	.0	.0	*	.4	.8	71	1.2
65/69	.0	.0	.0	.0	.0	.0	*	*	2	*
TOTAL	0	0	0	5	91	1731	3451	831	6109	100.0
PCT	.0	.0	.0	.1	1.5	28.3	56.4	13.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.1	.1	*	.0	.0	.0	*
.1	.1	.1	1.0	.9	.2	.1	.1	.0	.4
.7	1.1	2.2	14.4	19.9	5.4	1.3	.9	.0	3.2
.8	.7	1.3	14.6	22.1	4.6	.9	.4	.0	1.2
*	.1	.1	.5	.4	.1	*	.0	.0	*
.0	.0	.0	.0	*	.0	.0	.0	.0	*
1.6	1.9	3.7	30.5	43.3	10.3	2.3	1.5	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00503	86	83	82	79	76	74	66	79.0	2494
06509	91	83	82	79	75	74	67	78.7	3088
12515	92	89	86	81	77	75	70	81.2	2479
18521	91	86	84	80	77	75	68	80.3	3242
TOT	92	86	84	80	76	74	66	79.8	11303

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00503	.0	.0	.3	16.6	67.2	15.9	85	1608
06509	.0	.0	.6	15.3	64.8	19.3	85	1613
12515	.0	.2	4.2	46.0	40.1	9.4	80	1620
18521	.0	.1	.9	35.7	53.0	10.3	82	1702
TOT	0	5	99	1866	3677	896	83	6543

PERIOD: (PRIMARY) 1925-1973
(OVER-ALL) 1863-1973

NOVEMBER

AREA 0010 MONROVIA
3.9N 11.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 48	69 72	73 76	77 80	81 84	85 88	89 92	TOT	M FOG	WU FOG
11/13	.0	.0	.0	.0	.0	*	.1	9	.0	.1
9/10	.0	.0	.0	.0	.0	.1	*	9	.0	.1
7/8	.0	.0	.0	*	.1	.2	.2	34	.0	.5
6	.0	.0	.0	.1	.2	.2	*	34	.0	.5
5	.0	.0	.0	.2	.3	.3	*	58	.0	.9
4	.0	.0	*	.3	.7	.5	*	103	.0	1.5
3	.0	.0	.0	.4	1.1	.7	.0	146	.0	2.2
2	.0	*	.0	.9	2.1	.5	.0	235	*	3.5
1	.0	.0	.3	3.0	3.9	.3	.0	501	.0	7.5
0	.0	.0	.6	6.9	6.3	.3	.0	934	.1	14.0
-1	.0	.0	1.3	14.6	7.9	.1	*	1593	.1	23.8
-2	.0	.0	1.2	13.7	5.0	*	.0	1322	.1	19.8
-3	.0	.0	.9	9.0	1.8	*	.0	779	*	11.7
-4	.0	.0	.8	5.1	.8	.0	.0	442	*	6.6
-5	.0	.0	.7	2.6	.4	.0	.0	242	*	3.6
-6	.0	*	.6	1.0	*	.0	.0	110	.0	1.7
-7/-8	.0	*	.5	.7	*	.0	.0	84	.0	1.3
-9/-10	.0	*	.1	*	.0	.0	.0	12	.0	.2
-11/-13	.0	*	*	*	.0	.0	.0	5	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	.0	3	.0	*
TOTAL	3	9	465	3899	214	30	6655	21	6634	
PCT	*	.1	7.0	58.4	30.7	3.2	.5	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 19

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.1	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3
1-2	.1	.7	.0	.0	.0	.0	.8	.1	.8	*	.0	.0	.0	.9
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.2	.1	.0	.0	.0	.3
5-6	.0	*	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.1	.0	.0	.0	1.5	.2	1.2	.2	.0	.0	.0	1.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.4	.0	.0	.0	.0	.9	.8	2.2	.1	.0	.0	.0	3.1
1-2	.2	1.6	.2	.0	.0	.0	2.0	.8	11.2	2.6	.0	.0	.0	14.6
3-4	.0	.5	.4	*	.0	.0	.9	*	5.1	4.0	.0	.0	.0	9.1
5-6	*	*	.1	.0	.0	.0	.2	.0	.5	1.7	*	.0	.0	2.2
7	*	.0	*	.0	.0	.0	.1	.0	.2	.2	*	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.6	.7	*	.0	.0	4.0	1.6	19.3	8.6	*	.0	.0	29.6

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0010 MONROVIA
3.9N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.5	3.3	.1	.0	.0	.0	4.9	.7	1.1	.0	.0	.0	.0	1.8	
1-2	.9	18.5	3.7	.0	.0	.0	23.1	.2	4.7	.5	.0	.0	.0	5.5	
3-4	.1	7.7	6.5	.0	.0	.0	14.3	*	1.1	.6	.0	.0	.0	1.8	
5-6	.0	.9	1.5	.0	.0	.0	2.4	.0	.2	.1	.0	.0	.0	.3	
7	.0	.2	.1	*	.0	.0	.4	.0	.1	*	.0	.0	.0	.1	
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	*	*	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.5	30.7	12.0	*	.0	.0	45.2	1.0	7.2	1.3	.0	.0	.0	9.5	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.3	.0	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	.5		
1-2	.2	1.0	.0	.0	.0	.0	1.2	.2	.6	*	.0	.0	.0	.9		
3-4	.0	.1	*	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	*		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	1.4	*	.0	.0	.0	1.7	.5	.9	*	.0	.0	.0	1.4	94.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.9	8.1	.2	.0	.0	.0	20.2	
1-2	3.2	38.2	6.7	.0	.0	.0	48.1	
3-4	.2	14.2	11.2	*	.0	.0	25.6	
5-6	*	1.6	3.3	*	.0	.0	5.0	
7	*	.5	.4	*	.0	.0	.9	
8-9	.0	.1	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.5	62.6	21.8	.1	.0	.0	100.0	3713

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	17.0	16.6	5.6	1.4	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1942	3
6-7	*	2.5	10.0	7.2	2.4	.5	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1023	4
8-9	.0	1.1	3.0	2.8	1.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	388	4
10-11	.0	.8	1.0	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
12-13	.0	.0	1.3	.6	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
>13	.0	.0	.0	.6	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	6
INDET	5.6	6.6	4.5	2.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	878	2
TOTAL	359	1258	1634	891	293	91	8	6	3	0	0	0	0	0	0	0	0	0	0	4503	3
PCT	8.0	27.9	36.3	19.8	6.5	1.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1973
(OVER-ALL) 1859-1973

DECEMBER

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	2.7	.0	.0	.0	.0	.0	8.1	4.5	4.6	1.1	.0	6.3	1.8	74.6
NE	3.7	3.0	.4	.0	.0	.0	.0	7.7	4.4	7.2	1.1	.0	5.0	.5	75.0
E	5.0	3.1	.3	.0	.0	.0	.0	8.4	5.7	5.8	3.1	.0	6.5	.0	72.5
SE	2.6	3.8	.6	.0	.0	.0	.0	6.8	4.5	4.2	.7	.0	1.1	.1	83.3
S	2.3	3.5	1.0	.0	.0	.0	.0	6.8	4.9	5.3	.6	.0	.8	.1	82.3
SW	3.9	3.4	.9	.0	.0	.0	.0	8.3	4.4	9.3	1.7	.0	1.3	.0	75.7
W	3.6	3.6	.9	.0	.0	.0	.0	7.7	2.5	8.0	2.7	.0	3.1	.0	77.0
NW	2.2	2.7	.5	.0	.0	.0	.0	5.4	3.0	9.9	4.8	.0	4.3	.0	73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	1.5	.0	.0	.0	.0	.0	3.6	1.7	10.3	1.7	.0	6.2	.6	76.1
TOT PCT	2.8	3.3	.7	.0	.0	.0	.0	6.9	4.3	6.3	1.2	.0	2.1	.2	79.8
TOT OBS:	6281														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.3	3.2	.7	.0	.0	.0	.0	6.2	4.5	13.0	1.2	.0	1.6	.2	74.3
06009	4.2	3.7	.7	.0	.0	.0	.0	8.7	4.8	11.7	1.5	.0	1.6	.1	73.3
12015	2.7	2.4	1.0	.0	.0	.0	.0	6.0	4.5	1.0	1.0	.0	2.2	.2	85.5
18021	2.5	3.4	.5	.0	.0	.0	.0	6.5	3.7	2.1	1.9	.0	3.2	.2	83.0
TOT PCT	3.0	3.2	.7	.0	.0	.0	.0	6.8	4.4	6.8	1.4	.0	2.2	.2	79.1
TOT OBS:	6974														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	2.1	.2	.0	.0	.0		3.7	5.2		2.1	2.1	3.1	5.4	5.6	3.7	3.3	3.2
NE	1.0	2.5	.3	.0	.0	.0		3.9	6.0		2.2	1.0	2.9	5.7	6.2	5.5	3.5	3.3
E	.9	2.3	.4	.0	.0	.0		3.6	6.6		2.1	1.3	3.0	5.6	6.2	2.8	2.9	2.9
SE	2.3	13.1	4.6	.0	.0	.0		20.1	8.1		20.6	16.0	21.4	17.5	20.7	19.9	21.0	15.2
S	4.0	24.1	6.9	.0	.0	.0		35.0	7.8		36.7	36.7	36.5	30.1	33.5	38.8	35.5	33.5
SW	2.6	9.8	1.1	.0	.0	.0		13.6	6.4		15.6	19.4	12.8	13.6	10.0	12.1	14.0	17.8
W	1.6	4.5	.3	.0	.0	.0		6.5	5.5		7.2	6.5	6.2	6.3	4.2	3.7	7.0	10.3
NW	1.4	3.4	.1	.0	.0	.0		5.0	5.1		4.6	3.8	4.6	6.6	5.2	6.3	4.6	5.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8							8.8	.0		8.9	13.1	9.5	9.3	8.4	7.4	8.3	8.5
TOT OBS	2497	6452	1463	14	0	0	10426		6.5		2082	130	2042	843	2166	136	2140	887
TOT PCT	23.9	61.9	14.0	.1	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.7	.9	.0	.0	.0		3.7	5.2	2.1	3.8	5.5	3.2
NE	2.6	1.2	.1	.0	.0		3.9	6.0	2.1	3.8	6.2	3.4
E	2.2	1.3	.2	.0	.0		3.6	6.6	2.0	3.7	6.0	2.9
SE	8.0	11.5	.6	.0	.0		20.1	8.1	20.3	20.3	20.6	19.3
S	14.8	19.5	.6	.0	.0		35.0	7.8	36.7	34.6	33.8	34.9
SW	7.8	5.7	.1	.0	.0		13.6	6.4	15.8	13.0	10.2	15.1
W	4.6	1.9	.0	.0	.0		6.5	5.5	7.1	6.2	4.2	8.0
NW	3.8	1.1	.0	.0	.0		5.0	5.1	4.5	5.2	5.2	4.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.8						8.8	.0	9.2	9.5	8.3	8.4
TOT OBS	5765	4493	166	2	0	10426		6.5	2212	2885	2302	3027
TOT PCT	55.3	43.1	1.6	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1973
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4.0N 11.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	9.2	13.5	62.7	14.4	.2	.0	.0	6.6	100.0	2212	
06009	9.5	14.9	59.7	13.3	.1	.0	.0	6.4	100.0	2885	
12015	8.3	16.4	52.3	15.4	.2	.0	.0	6.6	100.0	2302	
18021	8.4	15.6	62.5	13.4	.1	.0	.0	6.5	100.0	3027	
TOT	921	1576	6452	1463	14	0	0	6.5		10426	
PCT	8.8	15.1	61.9	14.0	.1	.0	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.8	.7	1.2	.7		4.8
NE	.9	.7	1.3	.9		4.9
E	.8	.6	1.2	1.0		5.1
SE	3.6	5.9	9.2	4.6		5.0
S	6.0	10.4	16.5	6.5		5.0
SW	1.9	2.5	4.4	2.4		5.1
W	1.0	.7	1.6	1.0		4.8
NW	.8	.7	1.3	.7		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.8	1.6	2.0	1.1		3.8
TOT OBS	944	1216	1965	960	5085	4.9
TOT PCT	18.6	23.9	38.6	18.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH 5/8 OF WIND DIRECTION										
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
.0	.0	*	.2	.4	.2	*	*	.0	.1	2.4
.0	.0	*	.3	.5	.3	.1	.1	*	.1	2.4
.0	.0	.1	.3	.5	.3	.2	.1	*	*	2.1
.1	*	.2	1.9	3.5	2.1	.5	.3	*	.2	14.5
.1	*	.5	2.8	6.4	3.2	1.4	.3	.2	.3	24.4
*	.0	.2	.8	1.5	.9	.5	.1	.1	.0	7.1
.0	.0	*	.4	.4	.3	.1	.1	*	.1	2.7
*	.0	.1	.1	.4	.1	.1	.0	*	.1	2.4
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	*	*	.2	.6	.4	.2	*	*	.2	5.9
10	3	61	348	726	397	165	50	22	48	3255
.2	.1	1.2	6.8	14.3	7.8	3.2	1.0	.4	.9	64.0

TABLE 7

CUMULATIVE PCT FRFQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.8	2.3	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	4.4	5.4	5.6	5.6	5.6	5.6	5.6	5.6
= OR >2000	10.7	12.8	13.1	13.1	13.1	13.1	13.1	13.1
= OR >1000	21.8	26.2	26.8	26.9	26.9	26.9	26.9	26.9
= OR >600	26.8	32.6	33.5	33.6	33.6	33.7	33.7	33.7
= OR >300	27.4	33.6	34.7	34.8	34.8	34.9	34.9	34.9
= OR >150	27.4	33.7	34.7	34.8	34.9	34.9	34.9	35.0
= OR >0	27.5	33.8	34.8	35.0	35.0	35.1	35.1	35.1
TOTAL	1530	1881	1940	1947	1951	1954	1954	1956

TOTAL NUMBER OF OBS: 5567

PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.3	9.3	15.2	16.8	15.0	8.9	8.6	7.3	10.4	.1	5916

PERIOD: (PRIMARY) 1924-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	*	*	.0	.0	.0	.0	*	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	*	*	.0	*	*	.0	*	.0	.0	*	.2	
1/2<1	PCP	*	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	.1	.1	.1	.2	.1	.1	.0	.0	.7	
	TOT %	*	.1	.1	.1	.1	.2	.1	.1	.0	.0	.8	
1<2	PCP	*	*	*	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	*	.1	.1	.1	.1	.0	.1	.5	
	TOT %	*	*	*	.1	.2	.1	.1	.1	.0	.1	.7	
2<5	PCP	*	*	.1	.2	.1	.1	.1	*	.0	*	.6	
	NO PCP	.2	.1	*	.1	.1	.1	.1	.1	.0	.2	1.0	
	TOT %	.2	.1	.1	.3	.3	.1	.1	.1	.0	.2	1.5	
5<10	PCP	.1	.2	.1	.7	1.1	.5	.2	.1	.0	.1	3.0	
	NO PCP	.9	1.2	1.0	3.3	5.4	2.1	1.1	.8	.0	2.0	17.8	
	TOT %	1.0	1.3	1.1	3.9	6.5	2.6	1.3	.9	.0	2.1	20.8	
10+	PCP	.1	.1	.1	.7	1.3	.4	.1	.1	.0	.1	2.9	
	NO PCP	1.9	2.3	2.1	18.0	30.1	8.4	3.0	2.4	.0	4.9	73.1	
	TOT %	2.0	2.3	2.2	18.7	31.3	8.9	3.1	2.4	.0	5.1	76.0	
TOT OBS													6277
TOT PCT		3.3	3.9	3.6	23.0	38.4	11.9	4.7	3.7	.0	7.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	.0	*	*	*	*	*	.0	*	.1	
	11-21	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	.0	*	*	*	.0	*	.1	
	4-10	*	*	.1	*	.1	.1	.1	*	.0	*	.5	
	11-21	*	*	.0	*	*	.0	.0	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.1	.1	.1	.2	.1	.1	.0	*	.6	
1<2	0-3	*	.0	.0	*	*	*	*	*	.0	.1	.3	
	4-10	*	*	*	.1	.1	*	*	*	.0	.3	.3	
	11-21	*	*	*	*	*	.0	.0	.0	.0	.1	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	*	.1	.1	.1	.1	.1	.0	.1	.7	
2<5	0-3	.1	.1	*	*	.1	*	*	*	.0	.4	.8	
	4-10	.2	.1	.1	.2	.2	.1	.1	.1	.0	1.1	1.1	
	11-21	*	*	*	.1	.1	*	*	*	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.2	.3	.3	.2	.2	.2	.0	.4	2.2	
5<10	0-3	.4	.3	.3	.5	.7	.6	.4	.3	.0	2.2	5.6	
	4-10	.6	.8	.7	2.3	4.2	1.8	.9	.6	.0	12.0	12.0	
	11-21	*	.1	.1	.6	1.0	.2	.1	.1	.0	2.3	2.3	
	22+	.0	*	.0	*	.0	.0	.0	.0	.0	*	*	
	TOT %	1.0	1.2	1.1	3.5	5.9	2.7	1.4	1.0	.0	2.2	19.9	
10+	0-3	.8	.7	.6	1.6	2.9	2.0	1.0	.9	.0	5.8	16.4	
	4-10	1.2	1.5	1.3	11.6	21.0	7.3	2.5	1.9	.0	48.3	48.3	
	11-21	.1	.2	.2	4.2	6.0	.7	.2	*	.0	11.7	11.7	
	22+	.0	*	.0	*	.0	.0	.0	.0	.0	*	*	
	TOT %	2.0	2.5	2.1	17.4	30.0	10.1	3.7	2.9	.0	5.8	76.4	
TOT OBS													8123
TOT PCT		3.3	4.0	3.5	21.3	36.5	13.2	5.4	4.2	.0	8.6	100.0	

PERIOD: (PRIMARY) 1924-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.0	1.4	5.6	12.7	5.5	2.0	.5	.6	.9	29.5	70.5	1329
06009	.2	.1	1.3	7.5	15.2	8.1	3.0	.9	.4	.9	37.5	62.5	1410
12015	.0	.0	1.0	7.1	13.9	8.1	3.6	1.1	.5	.7	35.9	64.1	1573
18021	.2	.1	1.2	5.7	11.6	7.2	3.7	1.2	.2	1.2	32.2	67.8	1467
TOT	10	3	68	376	772	420	178	55	24	53	1959	3820	5779
PCT	.2	.1	1.2	6.5	13.4	7.3	3.1	1.0	.4	.9	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.4	.9	.5	1.9	19.8	76.6	1995
06009	.2	1.2	.6	2.1	23.7	72.3	2329
12015	.1	.4	.7	1.8	17.9	79.0	2095
18021	.1	.9	.8	2.9	20.6	74.7	2397
TOT	17	74	58	192	1816	6859	8816
PCT	.2	.8	.7	2.2	20.6	75.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50 FT	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.8	8.6	22.7	68.7	1273
06009	.3	1.9	10.7	28.6	60.7	1363
12015	.0	1.0	9.6	28.1	62.3	1527
18021	.2	1.6	9.3	25.1	65.5	1404
TOT	11	87	533	1461	3573	5567
PCT	.2	1.6	9.6	26.2	64.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	.0	.1	.0	.0	.0	4	.1
85/89	.0	.0	.0	.1	.6	2.2	.6	.1	200	3.6
80/84	.0	.0	.0	.5	1.7	23.2	31.4	4.5	3405	61.2
75/79	.0	.0	.0	*	.2	3.6	22.8	7.4	1893	34.0
70/74	.0	.0	.0	.0	.0	.0	.2	.8	59	1.1
TOTAL	0	0	1	35	140	1609	3059	717	5561	100.0
PCT	.0	.0	*	.6	2.5	28.9	55.0	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	*	.1	*	.0	.0	.0	.0
85	.1	.2	.2	.8	1.1	.3	.2	.1	.0	.5
80	2.6	2.5	2.0	13.4	21.0	8.0	3.0	2.6	.0	6.0
75	.5	.8	1.0	9.0	16.8	3.3	1.0	.5	.0	1.1
70	.1	.2	.2	.2	.3	*	*	*	.0	*
TOTAL	3.4	3.7	3.4	23.5	39.3	11.6	4.2	3.3	.0	7.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	84	82	80	76	74	71	79.9	2396
06009	87	83	82	80	76	74	69	79.6	3094
12015	92	88	86	82	77	74	70	81.8	2447
18021	92	87	85	81	77	74	72	81.1	3163
TOT	92	87	84	81	77	74	69	80.6	11100

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.0	19.7	64.1	15.0	84	1470
06009	.0	.3	1.2	17.0	63.7	17.8	84	1543
12015	.0	1.0	5.2	45.0	40.6	8.2	80	1579
18021	.0	1.0	2.6	36.2	49.9	10.3	81	1557
TOT	0	38	157	1825	3344	785	82	6149

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	*	2	.0	*
9/10	.0	.0	.0	*	*	*	9	.0	.1
7/8	.0	.0	.1	*	.2	.1	23	.0	.4
6	.0	.0	.1	.1	.2	*	23	.0	.4
5	.0	.0	.1	.4	.4	.1	58	.0	.9
4	.0	.0	.2	.7	.5	*	87	*	1.4
3	.0	.0	.2	.9	.6	.0	105	.0	1.7
2	.0	.1	.4	2.0	.9	.0	213	.1	3.3
1	.0	.2	1.8	5.0	.6	*	477	.1	7.5
0	.0	.3	4.7	9.4	.5	.0	942	.4	14.5
-1	*	.6	10.7	13.1	.1	.0	1560	.4	24.3
-2	*	.6	12.0	7.8	*	.0	1299	.4	20.1
-3	*	.7	7.8	2.7	*	.0	711	.2	11.1
-4	*	.4	4.4	1.1	.0	.0	379	*	6.0
-5	.0	.6	2.4	.7	*	.0	235	*	3.7
-6	*	.6	.9	.1	.0	.0	104	.0	1.6
-7/-8	*	.6	.5	.2	.0	.0	79	.0	1.2
-9/-10	*	.2	*	.0	.0	.0	15	.0	.2
-11/-13	*	.1	*	.0	.0	.0	7	.0	.1
-14/-16	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL	12	308	2932	2803	255	19	6329	94	6235
PCT	.2	4.9	46.3	44.3	4.0	.3	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.1	.6	.5	.0	.0	.0	.0	1.0
1-2	.4	1.3	.0	.0	.0	.0	1.7	.3	1.4	.1	.0	.0	.0	1.7
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.1	*	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.1	.1	.0	.0	.0	3.1	.8	2.2	.3	.0	.0	.0	3.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7	.8	1.2	*	.0	.0	.0	2.0
1-2	.2	1.5	.2	.0	.0	.0	1.9	.8	8.8	1.6	.0	.0	.0	11.1
3-4	.0	.4	.1	.0	.0	.0	.5	.1	3.9	3.8	.0	.0	.0	7.9
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.5	1.0	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.4	.4	.0	.0	.0	3.4	1.7	14.4	6.7	.0	.0	.0	22.8

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	2.3	.0	.0	.0	.0	4.0	1.2	1.0	.1	.0	.0	.0	2.3
1-2	1.1	16.7	2.9	.0	.0	.0	20.7	.5	5.6	.5	.0	.0	.0	6.5
3-4	.2	6.7	4.9	.0	.0	.0	11.8	.*	1.6	.4	.0	.0	.0	2.0
5-6	.0	.8	1.5	.0	.0	.0	2.3	.0	.1	.2	.0	.0	.0	.2
7	.1	.1	.3	.0	.0	.0	.5	.0	.*	.0	.0	.0	.0	.*
8-9	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	26.7	9.7	.0	.0	.0	30.5	1.7	8.3	1.1	.0	.0	.0	11.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.7	.6	.0	.0	.0	.0	1.3	.5	.5	.0	.0	.0	.0	1.0	
1-2	.2	2.2	.2	.0	.0	.0	2.6	.4	1.4	.1	.0	.0	.0	1.9	
3-4	.0	.4	.*	.0	.0	.0	.4	.0	.2	.1	.0	.0	.0	.3	
5-6	.0	.*	.*	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	3.2	.2	.0	.0	.0	4.4	.9	2.1	.2	.0	.0	.0	3.2	90.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.3	7.2	.1	.0	.0	.0	25.6	
1-2	4.6	37.0	5.2	.0	.0	.0	46.7	
3-4	.4	13.0	9.1	.0	.0	.0	22.4	
5-6	.0	1.6	2.7	.0	.0	.0	4.3	
7	.1	.2	.5	.0	.0	.0	.8	
8-9	.0	.1	.1	.0	.0	.0	.1	
10-11	.0	.0	.*	.0	.0	.0	.*	
12	.0	.0	.*	.0	.0	.0	.*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.4	58.9	17.7	.0	.0	.0	100.0	3412

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	16.7	16.3	6.5	1.7	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1888	3
6-7	.2	2.3	9.5	6.8	1.7	.4	.1	*	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	890	4
8-9	.0	1.2	2.4	1.9	1.1	.1	*	.	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	288	4
10-11	.0	.7	1.1	.7	.2	.1	*	.	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
12-13	.0	.0	1.4	.5	.1	*	.	.	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
>13	.0	.0	.0	.4	.1	.	.	.	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
INDET	7.9	7.0	5.2	2.0	.1	.1	.	.	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	951	2
TOTAL	462	1186	1525	800	215	41	13	2	3	0	0	0	0	0	0	0	0	0	0	4247	3
PCT	10.9	27.9	35.9	18.8	5.1	1.0	.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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AREA 0010 MONROVIA
4.0N 11.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	9.3	4.9	1.3	.0	.0	.0	*	15.5	3.7	6.9	1.3	*	3.6	.3	69.9
NE	9.8	5.5	1.5	.0	.0	.0	*	16.6	4.4	6.8	1.8	*	2.3	.3	69.9
E	7.2	4.2	1.1	.0	.0	.0	.0	12.3	4.1	6.2	1.7	.0	2.7	*	74.9
SE	2.7	3.4	.4	.0	.0	.0	*	6.6	3.4	4.0	.6	*	.7	*	85.3
S	3.0	3.7	.8	.0	.0	.0	*	7.5	4.6	4.6	.4	*	.6	*	83.0
SW	5.0	5.0	1.1	.0	.0	.0	*	11.0	5.7	6.0	.7	.0	.6	*	76.6
W	6.3	5.6	1.5	.0	.0	.0	*	13.1	5.5	6.8	.8	.0	1.0	*	73.7
NW	7.9	4.9	1.9	.0	.0	.0	*	14.5	4.9	7.2	.9	.0	1.6	*	71.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	1.9	.5	.0	.0	.0	.0	4.5	3.8	7.6	1.5	.1	3.7	.1	78.8
TOT PCT	3.6	3.8	.8	.0	.0	.0	*	8.2	4.4	5.0	.7	*	1.1	.1	81.3
TOT OBS: 80059															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.2	3.4	.9	.0	.0	.0	*	7.5	4.4	10.3	.7	*	1.1	*	76.8
06009	5.0	4.6	1.0	.0	.0	.0	.0	10.6	4.5	8.7	.9	*	1.0	*	75.7
12015	3.6	3.5	.8	.0	.0	.0	*	7.9	4.8	.6	.6	*	1.2	.1	85.0
18021	3.0	3.6	.6	.0	.0	.0	*	7.2	3.8	1.8	.8	*	1.3	.1	85.4
TOT PCT	3.7	3.8	.9	.0	.0	.0	*	8.3	4.4	5.2	.8	*	1.2	.1	80.8
TOT OBS: 85814															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	1.9	.3	*	*	.0		3.1	6.3		2.1	2.2	2.7	4.4	4.7	3.2	2.7	2.0
NE	.5	1.4	.3	*	*	.0		2.2	6.9		1.5	1.6	1.9	3.6	3.4	2.6	1.9	1.6
E	.6	1.7	.3	*	*	.0		2.6	7.0		1.9	1.8	2.7	3.7	3.5	2.6	2.2	2.0
SE	1.4	10.3	4.9	.1	*	.0		16.7	8.7		17.3	12.4	16.5	14.3	17.7	14.0	17.5	14.1
S	2.6	21.5	12.5	.3	*	.0		36.8	8.9		36.8	39.7	36.4	35.1	36.9	41.8	37.7	36.1
SW	1.8	12.8	5.1	.2	*	.0		19.9	8.3		20.6	21.7	20.4	20.8	16.9	17.9	19.9	24.2
W	1.3	5.6	.9	*	*	.0		7.8	7.3		8.5	9.9	7.9	7.4	6.2	7.7	7.8	10.1
NW	1.1	4.2	.5	*	*	.0		5.8	6.8		5.3	4.4	5.6	6.3	6.2	6.7	6.0	5.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		8.0	6.3	5.9	4.3	4.5	3.5	4.2	4.5
TOT OBS							124417		8.1		25054	1655	24521	9492	26235	1802	25401	10257
TOT PCT	15.1	59.3	24.7	.8	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.1	1.0	*	*	.0		3.1	6.3	2.1	3.2	4.6	2.5
NE	1.4	.8	.1	*	.0		2.2	6.9	1.5	2.4	3.3	1.8
E	1.5	1.0	.1	*	.0		2.6	7.0	1.9	3.0	3.5	2.2
SE	5.4	10.3	.9	*	.0		16.7	8.7	17.0	15.9	17.5	16.5
S	10.6	23.4	.8	*	.0		36.8	8.9	36.9	36.0	37.2	37.2
SW	7.2	11.4	1.2	*	.0		19.9	8.3	20.7	20.5	17.0	21.1
W	4.4	3.3	.2	*	.0		7.8	7.3	8.6	7.8	6.2	8.5
NW	3.6	2.2	.1	*	.0		5.8	6.8	5.2	5.8	6.2	5.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	6.0	5.4	4.4	4.3
TOT OBS						124417		8.1	26709	34013	28037	35658
TOT PCT	41.2	53.3	5.4	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	6.0	9.2	60.1	23.9	.7	*	.0	8.1	100.0	26709
0600	5.4	10.8	60.6	22.4	.8	*	.0	7.9	100.0	34013
1200	4.4	10.6	57.5	26.8	.8	*	.0	8.3	100.0	28037
1800	4.3	9.9	59.0	26.0	.7	*	.0	8.3	100.0	35658
TOT								8.1		124417
PCT	5.0	10.1	59.3	24.7	.8	*	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.8	.6	1.1	.7		5.1
NE	.5	.3	.7	.6		5.5
E	.5	.4	.8	.8		5.0
SE	3.7	4.5	6.9	3.5		4.9
S	5.8	8.8	15.5	9.4		5.1
SW	2.3	3.2	6.7	5.0		5.4
W	1.4	1.4	2.4	1.6		5.4
NW	1.4	1.1	1.9	1.0		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.6	1.1	1.4	.7		4.1
TOT OBS					63377	5.1
TOT PCT	18.1	21.4	37.2	23.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
*	*	*	.2	.4	.2	.1	*	*	.1	2.1	
*	*	*	.2	.3	.2	.1	*	*	*	1.2	
*	*	*	.2	.4	.2	.1	*	*	*	1.4	
*	*	.1	1.2	2.8	1.7	.6	.2	.1	.1	11.7	
.1	*	.4	3.3	7.1	4.0	1.4	.4	.1	.2	22.3	
*	.2	1.6	3.1	1.7	.7	.2	.1	.1	.1	9.5	
*	*	.1	.5	.8	.6	.2	.1	*	.1	4.3	
*	*	.1	.3	.6	.4	.2	.1	*	.1	3.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	*	*	.2	.5	.3	.1	*	*	.1	3.6	
63377											
.2	.1	1.1	7.7	16.0	9.3	3.4	1.0	.4	.9	59.8	
100.0											

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50YD	> 0
> 6500	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4
> 5000	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
> 3500	4.7	5.6	5.7	5.7	5.7	5.7	5.7	5.7
> 2000	12.3	14.6	14.9	14.9	15.0	15.0	15.0	15.0
> 1000	25.3	29.9	30.6	30.7	30.8	30.8	30.8	30.8
> 600	31.0	37.2	38.2	38.4	38.4	38.5	38.5	38.5
> 300	31.6	38.2	39.3	39.5	39.6	39.6	39.6	39.6
> 150	31.7	38.3	39.5	39.6	39.7	39.7	39.8	39.8
> 0	31.7	38.4	39.6	39.8	39.9	39.9	40.0	40.0

TOTAL NUMBER OF OBS: 67464

PCT FREQ NH < 5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.1	8.9	14.8	15.9	12.8	8.4	9.2	7.9	14.9	.1	71419

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	*	.1	.1	.1	*	*	.0	*	.3	
	TOT %	*	*	*	.1	.1	.1	*	*	.0	*	.4	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	*	*	*	.1	.1	.1	*	*	.0	.1	.3	
	TOT %	*	*	*	.1	.1	.1	*	*	.0	.1	.5	
2<5	PCP	*	*	*	.1	.2	.2	.1	*	.0	*	.8	
	NO PCP	.1	.1	*	.1	.2	.1	.1	.1	.0	.1	.9	
	TOT %	.1	.1	.1	.2	.4	.3	.1	.1	.0	.1	1.6	
5<10	PCP	.1	.2	.2	.6	1.3	1.0	.3	.2	.0	*	3.9	
	NO PCP	.7	.5	.5	2.9	5.9	2.9	1.3	1.1	.0	.8	16.7	
	TOT %	.8	.7	.7	3.5	7.2	3.8	1.6	1.3	.0	.9	20.6	
10+	PCP	.1	.1	.1	.5	1.2	.7	.3	.2	.0	.1	3.2	
	NO PCP	2.1	1.2	1.6	14.4	29.9	12.4	4.8	3.9	.0	3.4	73.7	
	TOT %	2.1	1.3	1.7	14.9	31.1	13.2	5.0	4.0	.0	3.5	76.8	
TOT OBS													79983
TOT PCT		3.2	2.2	2.6	18.7	38.9	17.5	6.9	5.5	.0	4.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	.0	.0	*	*	
	22+	*	*	*	*	.0	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	.0	*	.0	*	.0	*	*	
	TOT %	*	*	*	*	.1	.1	*	*	.0	*	.4	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	*	*	*	.1	.1	*	*	.0		.3	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	.0	*	.0	*	*	
	TOT %	*	*	*	.1	.1	.1	.1	.1	.0	.1	.5	
2<5	0-3	*	*	*	*	.1	*	*	*	.0	.2	.5	
	4-10	.1	.1	.1	.1	.3	.3	.1	.1	.0		1.0	
	11-21	*	*	*	.1	.2	.2	*	*	.0		.6	
	22+	*	*	*	*	*	*	*	*	.0		*	
	TOT %	.1	.1	.1	.2	.5	.5	.2	.1	.0	.2	2.1	
5<10	0-3	.2	.1	.1	.3	.5	.4	.3	.2	.0	1.0	3.2	
	4-10	.5	.4	.4	1.8	3.7	2.4	1.1	.9	.0		11.4	
	11-21	.1	.1	.1	.9	2.3	1.1	.2	.1	.0		5.0	
	22+	*	*	*	*	.1	.1	*	*	.0		.2	
	TOT %	.8	.7	.7	3.1	6.6	4.0	1.7	1.3	.0	1.0	19.8	
10+	0-3	.6	.4	.4	1.0	1.9	1.3	.9	.8	.0	3.8	10.9	
	4-10	1.4	.9	1.2	9.0	18.2	9.6	3.9	3.0	.0		47.1	
	11-21	.1	.1	.2	4.2	10.1	3.2	.5	.3	.0		18.7	
	22+	*	*	*	*	.2	.1	*	*	.0		.3	
	TOT %	2.1	1.4	1.7	14.2	30.4	14.1	5.3	4.1	.0	3.8	77.0	
TOT OBS													99175
TOT PCT		3.1	2.2	2.6	17.6	37.8	18.7	7.3	5.6	.0	5.0	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.1	1.0	7.1	14.2	7.8	2.9	.7	.4	.8	35.3	64.7	16258
06009	.3	.2	1.4	9.0	18.0	9.9	3.5	1.0	.4	1.0	44.8	55.2	16788
12015	.1	.1	1.1	7.3	15.3	9.4	3.6	1.1	.6	.8	39.4	60.6	18868
18021	.1	.1	1.0	6.6	14.0	8.7	3.2	.9	.4	.9	36.0	64.0	17647
TOT PCT	.2	.1	1.1	7.5	15.4	9.0	3.3	.9	.4	.9	38.9	61.1	69561 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.4	.4	2.1	19.3	77.7	23771
06009	.2	.6	.6	2.3	23.9	72.3	27648
12015	.1	.3	.5	2.1	16.4	80.6	25181
18021	.1	.5	.6	1.8	20.4	76.6	28344
TOT PCT	.1	.4	.5	2.1	20.1	76.7	104944 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.5	10.0	27.0	63.0	15668
06009	.3	2.1	12.8	33.7	53.5	16279
12015	.1	1.4	10.1	30.5	59.3	18416
18021	.1	1.3	9.1	28.3	62.5	17101
TOT PCT	.2	1.6	10.5	29.9	59.6	67464 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
85/89	.0	.0	.0	.0	.7	3.0	.7	.1	4.0	.4
80/84	.0	.0	.0	.2	1.6	20.0	24.7	3.8	50.3	.3
75/79	.0	.0	.0	.5	9.9	21.2	7.8	.0	39.4	.7
70/74	.0	.0	.0	.0	.0	.7	2.8	1.9	5.3	.1
65/69	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0
TOT PCT	.0	.0	.0	.3	2.9	33.6	49.5	13.7	68685	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.2	.1	.1	.9	1.2	.6	.5	.5	.0	.4
2.1	1.3	1.3	8.6	16.6	8.8	4.4	3.7	.0	3.4
.7	.6	.8	7.2	19.0	7.6	1.7	1.0	.0	.7
.1	.1	.2	1.9	2.4	.4	.1	.0	.0	.1
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
3.1	2.1	2.5	18.7	39.4	17.5	6.8	5.2	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	83	82	79	75	73	64	79.0	28125
06009	93	83	82	79	75	73	66	78.6	35606
12015	94	88	86	81	76	74	67	80.9	29024
18021	95	86	84	80	76	74	66	80.1	36634
TOT	95	86	84	80	75	73	64	79.6	129389

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	1.0	24.0	59.1	15.8	84	17665
06009	.0	.1	1.0	21.8	57.5	19.6	84	18359
12015	.0	.5	6.3	47.4	36.4	9.4	79	18749
18021	.0	.3	3.2	40.0	45.3	11.1	81	18746
TOT	0	180	2133	24627	36312	10267	82	73519

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WG FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	*	16	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	*	58	.0	.1
9/10	.0	.0	.0	*	*	.1	*	*	*	126	*	.2
7/8	.0	.0	.0	*	.1	.1	.1	.1	*	355	*	.5
6	.0	.0	.0	*	.1	.1	.1	.1	*	315	*	.4
5	.0	.0	.0	*	.2	.3	.3	.1	*	718	*	.9
4	.0	.0	*	.1	.3	.5	.5	.1	*	1073	*	1.4
3	.0	*	*	.2	.4	.8	.6	*	.0	1586	*	2.1
2	.0	*	*	.2	.8	1.8	.8	*	.0	2868	*	3.7
1	.0	*	.2	.6	2.1	3.6	.7	*	.0	5685	.1	7.3
0	.0	*	.3	1.0	5.1	7.2	.7	*	.0	11046	.2	14.2
-1	.0	*	.4	1.8	9.9	9.8	*	*	.0	17060	.2	22.0
-2	.0	*	.2	2.1	9.8	7.1	.1	.0	.0	14960	.1	19.3
-3	.0	*	.2	2.1	6.8	3.2	.1	.0	.0	9520	.1	12.2
-4	.0	*	.1	1.4	3.8	1.4	*	.0	.0	5170	*	6.7
-5	.0	*	.1	1.1	2.2	.8	*	.0	.0	3300	*	4.3
-6	.0	*	.1	.7	.9	.2	.0	.0	.0	1425	*	1.8
-7/-8	.0	*	.1	.6	.7	.2	.0	.0	.0	1170	*	1.5
-9/-10	*	*	*	.2	.1	*	.0	.0	.0	311	*	.4
-11/-13	.0	*	*	.1	*	*	.0	.0	.0	96	*	.1
-14/-16	.0	*	*	*	*	.0	.0	.0	.0	23	*	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL										76885		
PCT	*	.1	1.7	12.3	43.3	37.3	4.7	.5	*	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	*	.0	.0	.0	1.0	.3	.3	*	.0	.0	.0	.6
1-2	.3	1.2	.1	.0	.0	.0	1.6	.1	.8	.1	.0	.0	.0	1.1
3-4	*	.2	.1	.0	.0	.0	.4	*	.2	.1	*	.0	.0	.3
5-6	.0	*	*	.0	.0	.0	.1	*	*	*	*	.0	.0	.1
7	.0	*	.0	*	*	.0	*	.0	*	*	*	.0	.0	*
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.1	.3	*	*	.0	3.2	.4	1.4	.2	*	.0	.0	2.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	*	.0	.0	.0	.5	.5	1.1	.1	.0	.0	.0	1.7
1-2	.1	.9	.1	.0	.0	.0	1.2	.5	6.4	1.3	.0	.0	.0	8.2
3-4	*	.3	.2	*	.0	.0	.5	*	2.8	2.6	*	.0	.0	5.5
5-6	*	*	.1	.0	.0	.0	.1	*	.4	1.3	*	.0	.0	1.7
7	*	*	*	*	.0	.0	*	.0	.1	.3	*	.0	.0	.4
8-9	.0	.0	*	.0	.0	.0	*	*	*	*	*	.0	.0	*
10-11	.0	.0	.0	.0	*	.0	*	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.6	.4	*	*	.0	2.4	1.0	10.8	5.6	.1	.0	.0	17.5

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.4	.1	.0	.0	.0	3.6	.8	1.5	.1	.0	.0	.0	2.3
1-2	.8	13.9	3.2	.0	.0	.0	17.9	.6	7.1	1.0	.0	.0	.0	8.7
3-4	.1	6.0	6.4	.1	.0	.0	12.6	*	2.5	2.0	*	.0	.0	4.5
5-6	*	.8	3.4	.1	.0	.0	4.3	*	.3	.9	*	.0	.0	1.2
7	*	.1	.9	*	.0	.0	1.0	*	*	.2	*	*	.0	.3
8-9	.0	*	.1	*	.0	.0	.0	.0	.0	*	*	.0	.0	*
10-11	*	*	*	*	.0	.0	.1	.0	*	*	*	.0	.0	*
12	*	*	*	*	.0	.0	*	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	*	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	23.3	14.1	.3	.0	.0	39.6	1.4	11.4	4.2	.1	*	.0	17.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	1.0	*	.0	.0	.0	1.6	.5	.9	*	.0	.0	.0	1.4	
1-2	.4	3.2	.3	.0	.0	.0	3.8	.3	2.5	.2	.0	.0	.0	3.0	
3-4	*	.8	.3	.0	.0	.0	1.2	*	.6	.2	*	.0	.0	.9	
5-6	.0	.1	.1	*	.0	.0	.2	.0	.1	.1	.0	.0	.0	.1	
7	.0	*	*	*	.0	.0	*	*	*	*	*	.0	.0	*	
8-9	.0	*	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	5.1	.7	*	*	.0	6.8	.9	4.1	.5	*	.0	.0	5.5	94.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.0	8.2	.3	.0	.0	.0	20.5	
1-2	3.8	34.9	6.1	.0	.0	.0	44.8	
3-4	.3	12.9	11.5	.1	.0	.0	24.8	
5-6	*	1.6	5.8	.2	.0	.0	7.6	
7	*	.2	1.4	.1	*	.0	1.8	
8-9	*	*	.2	*	.0	.0	.3	
10-11	*	*	*	*	.0	.1	.1	
12	*	*	*	*	.0	.0	*	
13-16	*	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.2	58.0	25.3	.4	*	.0	100.0	42155

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	14.9	14.6	5.6	1.8	.4	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	20941	3
6-7	*	2.3	8.7	7.3	3.0	.8	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11918	4
8-9	*	.9	2.6	3.1	1.8	.6	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4942	5
10-11	.0	.9	1.1	1.1	.6	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2126	5
12-13	.0	.0	1.4	.6	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1303	4
>13	.0	*	.0	.5	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	460	6
INDET	6.2	5.6	5.1	2.4	.8	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	10441	2
TOTAL																				52131	4
PCT	9.1	24.7	33.4	20.5	8.5	2.4	1.0	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1854-1973

AREA 0010 MONROVIA
4.0N 11.5W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	2	*
91/92	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.0	1	*
89/90	*	.1	.3	.7	.4	*	.0	.0	*	.0	*	.1	168	.1
87/88	1.0	1.0	1.7	3.7	2.6	.5	.1	*	*	.1	.2	.6	1130	.9
85/86	5.8	7.7	12.4	19.1	15.5	3.5	.7	.1	.4	1.1	2.9	4.2	7206	6.0
83/84	26.7	30.9	35.8	41.3	40.1	15.1	3.1	.9	1.6	6.1	15.1	24.5	23830	19.8
81/82	46.6	42.9	35.1	27.8	32.2	44.2	21.3	9.7	11.5	31.7	43.7	46.0	39253	32.6
79/80	15.3	12.3	9.5	5.3	6.5	20.7	34.2	33.6	39.8	37.8	24.8	18.2	26169	21.7
77/78	3.6	3.4	3.4	1.3	1.8	7.6	19.7	31.2	30.3	15.9	10.2	5.0	13613	11.3
75/76	.7	1.3	1.4	.5	.5	3.9	8.0	13.0	10.1	5.2	2.4	1.0	4912	4.1
73/74	.2	.4	.3	.2	.2	3.1	6.0	6.9	4.8	1.8	.5	.3	2536	2.1
71/72	.1	.2	.2	*	.1	1.2	4.2	3.2	1.2	.2	*	.1	1113	.9
69/70	*	*	*	*	*	.2	2.2	1.2	.1	.1	*	.0	419	.3
67/68	*	*	*	*	*	*	.5	.2	*	.0	*	.0	81	.1
65/66	.0	*	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	9	*
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	9728	9284	10132	9673	9812	9698	10837	10685	9581	10088	10451	10483	120452	100.0
MEAN	81.8	82.0	82.4	83.2	82.8	80.6	78.4	77.7	78.4	79.8	80.8	81.5	80.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1011	1011	1012	1012	1010	1010	1011	1011	7349
FEB	1012	1010	1010	1012	1012	1010	1009	1011	1011	7373
MAR	1011	1010	1010	1011	1012	1010	1009	1010	1011	7626
APR	1012	1010	1010	1011	1012	1010	1010	1011	1011	7583
MAY	1012	1011	1011	1012	1013	1011	1011	1011	1012	7737
JUN	1014	1013	1013	1014	1015	1013	1013	1014	1014	7790
JUL	1015	1014	1014	1015	1016	1014	1014	1014	1015	8399
AUG	1015	1014	1014	1015	1015	1014	1013	1014	1014	8527
SEP	1014	1013	1013	1014	1015	1013	1012	1014	1014	7645
OCT	1013	1012	1012	1013	1013	1011	1011	1013	1012	8301
NOV	1012	1010	1011	1012	1012	1010	1010	1012	1011	8397
DEC	1012	1011	1011	1012	1012	1010	1010	1011	1011	7923
ANN	1013	1012	1012	1013	1013	1011	1011	1012	1012	94650
OBS	20140	1865	19824	4490	21315	1954	20250	4812		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1004	1008	1010	1011	1012	1014	1016	1024
FEB	1000	1005	1007	1009	1011	1012	1014	1016	1025
MAR	998	1003	1007	1009	1011	1012	1014	1015	1023
APR	997	1005	1008	1010	1011	1012	1014	1016	1021
MAY	996	1004	1008	1010	1012	1013	1015	1016	1023
JUN	1001	1008	1010	1012	1014	1015	1017	1019	1023
JUL	997	1009	1012	1014	1015	1016	1018	1019	1025
AUG	1001	1009	1011	1013	1014	1016	1017	1019	1026
SEP	1000	1009	1010	1012	1014	1015	1017	1018	1025
OCT	999	1007	1009	1011	1013	1014	1016	1017	1025
NOV	996	1005	1008	1010	1011	1013	1014	1016	1022
DEC	996	1006	1008	1010	1011	1012	1014	1016	1023

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1860-1976

JANUARY

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	1.5	1.2	.0	.0	.0	.0	3.7	1.8	3.1	9.2	.0	7.6	1.8	73.7
NE	5.7	2.8	.0	.0	.0	.0	.0	8.5	3.1	2.8	12.5	.0	16.7	5.1	51.6
E	6.5	2.9	1.0	.0	.0	.0	.0	9.4	5.2	5.2	9.9	.0	11.2	.0	59.2
SE	2.4	1.2	.6	.0	.0	.0	.1	4.2	2.3	3.4	1.9	.0	2.2	.1	86.3
S	1.6	1.5	.5	.0	.0	.0	.1	3.6	4.1	3.4	1.0	.0	1.2	.3	86.7
SW	.8	.9	.2	.0	.0	.0	*	2.0	2.3	4.9	1.5	.0	1.4	.5	87.8
W	1.8	.5	.8	.0	.0	.0	.2	3.3	1.8	3.4	3.8	.0	5.4	.6	82.2
NW	2.7	1.2	.0	.0	.0	.0	.0	3.9	2.7	3.3	7.2	.0	2.9	3.9	76.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.4	.0	.0	.0	.0	.0	.4	1.3	5.1	12.4	.4	6.0	1.7	72.6
TOT PCT	1.7	1.2	.4	.0	.0	.0	.1	3.3	2.8	3.9	3.4	*	3.2	.8	82.8
TOT OBS:	3171														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.6	.9	.8	.0	.0	.0	.0	3.0	2.6	8.4	3.8	.1	3.5	1.0	77.8
0600	2.5	1.6	.5	.0	.0	.0	.1	4.7	4.0	5.9	3.5	.0	1.7	.5	80.4
1200	1.7	1.4	.1	.0	.0	.0	.1	3.3	3.0	.5	4.1	.0	3.9	.4	84.9
1800	1.3	1.2	.5	.0	.0	.0	.2	3.1	1.6	1.8	3.6	.0	3.6	1.4	85.0
TOT PCT TOT OBS:	1.8 3405	1.3	.4	.0	.0	.0	.1	3.5	2.8	4.0	3.8	*	3.2	.8	82.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	1.9	.2	*	.0	.0		2.8	5.9	1.6	1.4	2.8	4.3	5.3	2.1	1.2	1.8
NE	1.0	1.8	.4	*	.0	.0		3.3	6.3	2.1	3.3	1.7	8.9	4.6	4.8	1.1	1.8
E	1.1	2.2	.3	*	.0	.0		3.7	6.1	3.6	5.5	3.0	5.0	3.6	4.3	2.4	4.4
SE	1.8	7.5	1.8	*	.0	.0		11.2	7.3	12.9	7.1	12.2	7.8	11.5	8.1	13.2	10.4
S	3.6	20.7	4.2	.1	.0	.0		28.5	7.4	30.3	22.9	33.1	22.4	27.3	20.9	35.0	25.6
SW	3.6	19.0	3.1	*	.0	.0		25.7	7.0	25.6	28.7	24.9	23.8	21.6	29.6	27.4	31.4
W	2.2	10.2	.7	*	.0	.0		13.2	6.1	13.1	20.5	10.9	14.9	11.5	18.8	10.5	13.7
NW	1.1	3.3	.3	*	.0	.0		4.7	5.9	2.4	4.8	2.8	7.6	7.3	6.1	3.0	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0							7.0	.0	8.4	5.8	8.6	5.4	7.2	5.5	6.1	5.7
TOT OBS	1270	3861	634	16	1	0	5782		6.4	1088	381	829	500	1245	400	848	491
TOT PCT	22.0	66.8	11.0	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.0	.7	.1	*	.0		2.8	5.9	1.5	3.4	4.5	1.4	
NE	2.2	1.0	.1	.0	.0		3.3	6.3	2.4	4.4	4.7	1.3	
E	2.6	1.0	.1	*	.0		3.7	6.1	4.1	3.8	3.8	3.1	
SE	5.5	5.5	.2	.0	.0		11.2	7.3	11.4	10.6	10.7	12.2	
S	13.5	14.6	.4	.0	.0		28.5	7.4	28.4	29.1	25.7	31.6	
SW	13.3	12.2	.2	.0	.0		25.7	7.0	26.4	24.5	23.5	28.9	
W	8.2	4.9	.1	*	.0		13.2	6.1	15.0	12.4	13.3	11.7	
NW	3.2	1.5	*	*	.0		4.7	5.9	3.0	4.6	7.0	3.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.0						7.0	.0	7.7	7.4	6.8	6.0	
TOT OBS	3312	2394	73	3	0	5782		6.4	1469	1329	1645	1339	
TOT PCT	57.3	41.4	1.3	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1860-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	7.7	14.5	66.6	11.0	.1	.1	.0	6.4	1469
06009	7.4	14.6	68.5	9.2	.3	.0	.0	6.2	1329
12015	6.8	10.0	65.5	11.2	.5	.0	.0	6.4	1045
18021	6.0	14.7	66.8	12.3	.1	.0	.0	6.6	1339
TOT	403	867	3861	634	16	1	0	6.4	5782
PCT	7.0	15.0	66.8	11.0	.3	*	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8	TOTAL OBS	MEAN CLOUD COVER
N	.9	.1	.7	.8		4.4
NE	.9	.2	.5	.8		4.2
E	.5	.4	.7	.7		5.1
SE	3.1	2.7	4.7	2.1		4.6
S	6.6	9.1	12.0	5.5		4.7
SW	6.2	6.9	7.8	4.0		4.3
W	3.7	1.9	3.1	1.9		4.1
NW	1.3	.6	1.2	.7		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.8	1.2	2.5	1.1		3.8
TOT OBS	690	616	875	465	2646	4.4
TOT PCT	26.1	23.3	33.1	17.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIRECTION											
AND OCCURRENCE OF NH < 5/8 OF WIND DIRECTION											TOTAL
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.1	.1	.2	.1	.2	.1	*	.0	.2	1.4	
.0	*	.1	.1	.2	.4	.1	*	.0	.0	1.5	
.1	.0	*	.1	.3	.3	.1	*	.0	.1	1.3	
.0	.0	.1	.7	1.5	1.1	.6	.1	.1	.1	8.3	
.1	.0	.2	2.1	4.3	3.1	1.0	.2	.2	.3	21.8	
.1	.0	*	1.3	2.3	2.4	.5	.2	.2	.5	17.3	
.0	*	.1	.3	.7	.9	.2	.1	.1	.4	7.8	
.0	.0	*	*	.3	.4	.2	.1	*	.2	2.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.2	.9	.5	.2	*	*	.5	5.1	
13	3	18	135	283	245	72	24	16	61	1776	2646
.5	.1	.7	5.1	10.7	9.3	2.7	.9	.6	2.3	67.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	2.0	2.7	3.0	3.1	3.1	3.1	3.1	3.1
OR >5000	2.5	3.6	3.9	4.0	4.0	4.0	4.0	4.0
OR >3500	4.3	6.0	6.5	6.6	6.6	6.6	6.6	6.6
OR >2000	10.9	14.4	15.4	15.5	15.6	15.6	15.6	15.6
OR >1000	18.8	24.5	25.7	25.9	26.0	26.0	26.0	26.0
OR >600	22.3	29.2	30.7	30.9	31.1	31.2	31.2	31.2
OR >300	22.5	29.7	31.3	31.6	31.7	31.8	31.8	31.8
OR >150	22.6	29.8	31.4	31.7	31.8	31.9	31.9	31.9
OR >0	22.7	30.0	31.8	32.2	32.3	32.4	32.4	32.4
TOTAL	637	841	893	902	905	909	909	909

TOTAL NUMBER OF OBS: 2805

PCT FREQ NH < 5/8: 67.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	15.4	8.6	14.5	15.8	13.2	8.1	8.4	6.5	9.3	.3	2990

PERIOD: (PRIMARY) 1926-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	*	.0	.0	.0	.1	.2	
1/2<1	PCP	.0	.0	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	.2	.2	.1	.1	.1	.2	.0	*	1.0	
	TOT %	.1	.2	.2	.2	.1	.1	.1	.2	.0	*	1.1	
1<2	PCP	*	*	*	.0	.0	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.3	.1	.1	.1	.2	.0	.0	.2	1.1	
	TOT %	*	.2	.3	.1	.1	.1	.2	.0	.0	.2	1.2	
2<5	PCP	.0	.0	.1	*	.1	*	.1	*	.0	.0	.3	
	NO PCP	.4	.5	.2	.2	.5	.7	.6	.3	.0	.9	4.4	
	TOT %	.4	.5	.3	.3	.5	.8	.6	.4	.0	.9	4.7	
5<10	PCP	.1	.2	.1	.2	.4	.2	.2	.1	.0	.0	1.4	
	NO PCP	1.1	.5	.9	2.0	3.9	4.2	3.1	1.6	.0	2.3	19.7	
	TOT %	1.1	.7	1.0	2.2	4.4	4.4	3.3	1.6	.0	2.3	21.1	
10+	PCP	.0	*	.1	.3	.5	.2	.1	*	.0	*	1.3	
	NO PCP	1.0	1.1	1.2	9.6	26.3	18.7	6.8	1.9	.0	3.9	70.4	
	TOT %	1.0	1.1	1.2	9.9	26.8	18.9	6.9	1.9	.0	3.9	71.7	
TOT OBS													3159
TOT PCT													7.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	*	*	.0		.1	
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	.0	.0	.0	.0	.1	*	*	*	.0	*	.2	
1/2<1	0-3	.0	*	.0	.0	*	*	.0	*	.0	.1	.2	
	4-10	.1	*	.1	.1	.1	*	*	.1	.0		.5	
	11-21	.0	*	.1	*	.0	*	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	.1	.1	.1	.1	.1	*	.1	.1	.9	
1<2	0-3	.0	*	*	.1	*	*	*	*	.0	.2	.4	
	4-10	*	.1	.1	.1	.1	.1	*	*	.0		.7	
	11-21	.0	*	.1	.0	.0	*	.0	.0	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	*	.2	.2	.1	.1	.2	.2	.1	.0	.2	1.2	
2<5	0-3	.1	.3	*	*	.2	.4	.2	.1	.0	1.2	2.6	
	4-10	.2	.2	.2	.3	.6	.7	.5	.3	.0		3.1	
	11-21	*	.1	*	*	.1	.1	.1	*	.0		.4	
	22+	*	.0	*	*	.0	.0	.0	.0	.0		*	
	TOT %	.4	.5	.3	.4	.9	1.3	.7	.5	.0	1.2	6.1	
5<10	0-3	.3	.3	.4	.4	1.0	1.2	.6	.4	.0	2.5	7.1	
	4-10	.8	.4	.7	1.4	3.3	3.9	2.5	1.0	.0		14.1	
	11-21	.1	.1	.1	.3	.7	.4	.1	.1	.0		1.8	
	22+	.0	*	.0	.0	*	.0	*	*	.0		.1	
	TOT %	1.2	.9	1.2	2.1	5.0	5.5	3.2	1.5	.0	2.5	23.1	
10+	0-3	.3	.3	.4	1.3	2.2	2.0	1.2	.5	.0	3.6	11.9	
	4-10	.7	.7	.8	6.0	17.9	14.0	6.0	1.7	.0		47.8	
	11-21	.1	.2	.1	1.6	3.9	2.3	.4	.1	.0		8.7	
	22+	*	.0	.0	*	*	*	.0	*	.0		.1	
	TOT %	1.1	1.2	1.3	9.0	24.1	18.3	7.6	2.3	.0	3.6	68.5	
TOT OBS													4336
TOT PCT													7.5 100.0

PERIOD: (PRIMARY) 1926-1976
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.2	.3	4.4	9.2	7.2	1.7	1.2	.6	2.2	27.2	72.8	643
06009	.6	.1	1.2	5.9	11.6	8.8	2.3	1.2	.4	1.6	33.8	66.2	690
12015	.5	.1	.6	4.6	9.7	9.9	2.7	.6	.4	2.7	31.6	68.4	828
18021	.4	.0	.5	4.8	9.8	8.3	3.4	.5	1.0	2.7	31.6	68.4	767
TOT PCT	13 .4	3 .1	19 .6	144 4.9	294 10.0	253 8.6	75 2.6	75 .9	18 .6	68 2.3	912 31.1	2016 68.9	2928 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.5	1.8	6.0	26.0	64.6	1110
06009	.5	1.2	1.5	5.9	25.1	65.9	1100
12015	.1	1.0	1.0	6.0	21.9	70.0	1262
18021	.3	.5	1.0	6.5	21.7	70.1	1100
TOT PCT	9 .2	48 1.0	60 1.3	279 6.1	1080 23.6	3096 67.7	4572 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.3	10.0	21.8	68.2	610
06009	.6	2.6	13.2	25.6	61.2	665
12015	.5	1.4	11.2	25.0	63.8	795
18021	.4	1.5	11.3	25.0	63.7	735
TOT PCT	13 .5	47 1.7	321 11.4	686 24.5	1798 64.1	2805 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	*	.0	.0	3	.1
85/89	.0	.0	*	.1	.6	2.5	.9	.4	114	4.5
80/84	.0	.0	.1	.4	1.0	18.8	40.9	9.5	1788	70.8
75/79	.0	.0	.0	*	.3	2.1	14.0	7.6	606	24.0
70/74	.0	.0	.0	.0	*	*	.2	.4	15	.6
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	4	14	53	591	1415	450	2527	100.0
PCT	.0	.0	.2	.6	2.1	23.4	56.0	17.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	.0	.0	.0	*	.0	.0
.1	.1	.2	.8	1.6	1.0	.5	.2	.0	.2
1.4	1.4	1.5	8.7	21.6	20.0	8.4	2.6	.0	5.2
.8	1.1	.9	3.1	10.0	4.2	2.0	.9	.0	1.2
*	.2	.1	.1	.1	*	.0	.0	.0	*
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
2.3	2.8	2.7	12.7	33.2	25.2	10.8	3.6	.0	6.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	84	83	81	77	75	71	80.3	1524
06009	90	84	83	80	76	73	61	79.9	1372
12015	93	89	86	82	78	75	63	82.1	1691
18021	92	86	85	81	78	74	64	81.3	1365
TOT	93	87	85	81	77	74	61	80.9	5952

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.2	15.7	61.4	21.6	85	663
06009	.0	.3	1.8	14.0	56.4	27.5	85	659
12015	.0	1.5	.1	35.1	48.0	11.3	81	732
18021	.0	.9	1.9	28.4	57.2	11.5	82	668
TOT	0	20	63	643	1512	484	83	2722

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.1	.0	*	.0	4	*	.1
9/10	.0	.0	.0	.0	*	.0	.1	.2	*	10	.0	.3
7/8	.0	.0	.0	.0	.1	.1	.2	.1	.0	16	.0	.5
6	.0	.0	.0	.0	*	.1	.2	*	.0	12	.0	.4
5	.0	.0	.0	*	.2	.4	.8	.1	*	50	.1	1.5
4	.0	.0	.0	.0	.3	1.1	.9	.0	.0	68	*	2.1
3	.0	.0	.0	.0	.2	1.2	.7	.0	.0	66	.1	2.0
2	.0	.0	.0	*	.7	3.8	1.0	.0	.0	174	.1	5.4
1	.0	.0	.0	.1	2.4	6.7	.6	*	.0	304	.3	9.4
0	.0	.0	.0	.1	5.6	13.3	.6	.0	.0	612	.9	18.7
-1	.0	.0	.0	.3	8.6	13.8	.3	.0	.0	716	.9	22.0
-2	.0	.0	.0	.2	7.4	7.9	.4	.0	.0	496	.4	15.5
-3	.0	.0	.1	.2	3.3	2.9	*	.0	.0	206	.4	6.2
-4	.0	.0	.0	.4	2.8	2.5	.0	.0	.0	178	.3	5.4
-5	.0	.0	.0	.4	1.7	1.3	*	.0	.0	110	.2	3.3
-6	.0	.0	*	.3	.7	.2	.0	.0	.0	38	.0	1.2
-7/-8	.0	.0	*	.6	.5	.2	.0	.0	.0	42	.1	1.2
-9/-10	.0	.0	.1	.1	.1	*	.0	.0	.0	9	.1	.2
-11/-13	.0	.0	.1	.0	.1	.0	.0	.0	.0	5	.0	.2
-14/-16	.1	*	.1	.0	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	2	11	11	1086	1737	180	16	2	3122	123	2999	
PCT	.1	*	.4	2.8	34.8	55.6	5.8	.5	.1	100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N	22-33	34-47	48+	PCT	1-3	4-10	11-21	NE	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.0	.9	.6	.4	.0	.0	.0	.0	.0	1.0
1-2	.2	.8	*	.0	.0	.0	.0	1.0	.4	.4	.3	.0	.0	.0	.0	1.1
3-4	.0	.1	.1	.0	.0	.0	.0	.1	.0	.3	.1	.1	.0	.0	.0	.5
5-6	.0	.1	.1	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.2
7	.0	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.3	.3	.0	.0	.0	.0	2.3	1.1	1.2	.4	.1	.0	.0	.0	2.7

HGT	1-3	4-10	11-21	E	22-33	34-47	48+	PCT	1-3	4-10	11-21	SE	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.0	.7	.7	1.1	.0	.0	.0	.0	.0	1.8
1-2	.2	.6	.1	.0	.0	.0	.0	.9	.4	.4	1.1	.0	.0	.0	.0	6.5
3-4	.1	.1	.1	.0	.0	.0	.0	.3	*	1.2	1.4	.1	.0	.0	.0	2.7
5-6	.0	.1	.0	.0	.0	.0	.0	.1	.0	*	.2	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.2	.2	*	.0	.0	.0	2.1	1.1	7.3	2.7	.1	.0	.0	.0	11.2

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.6	3.7	.1	.0	.0	.0		5.4	1.6	3.5	.0	.0	.0	.0		5.2
1-2	1.4	14.1	2.5	.0	.0	.0	18.0		1.2	11.7	1.5	.0	.0	.0		14.3
3-4	.1	4.7	2.9	.1	.0	.0	7.8		.1	2.0	1.7	.0	.0	.0		3.9
5-6	.0	.5	1.2	.0	.0	.0	1.7		.0	.2	.4	.0	.0	.0		.6
7	.0	.1	.4	.0	.0	.0	.5		.0	.0	*	.0	.0	.0		*
8-9	.0	.0	.0	.1	.0	.0	.1		.0	.1	.0	.0	.0	.0		.1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
TOT PCT	3.1	23.1	7.1	.1	.0	.0	33.4		2.9	17.5	3.6	.1	.0	.0		24.1

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.9	2.9	.0	.0	.0	.0		4.8	.5	1.0	.0	.0	.0	.0		1.5
1-2	.6	4.5	.4	.0	.0	.0	5.4		.3	1.5	.3	.0	.0	.0		2.1
3-4	.0	.8	.2	.0	.0	.0	1.0		.0	.2	.1	.0	.0	.0		.3
5-6	.0	.1	*	.0	.0	.0	.1		.0	*	*	.0	.0	.0		*
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	.0	.0		*
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.4	8.3	.6	.0	.0	.0	11.3		.7	2.8	.4	.0	.0	.0		3.9 91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.2	13.7	.1	.0	.0	.0	32.0	
1-2	4.8	37.7	5.8	.0	.0	.0	48.3	
3-4	.3	9.1	6.2	.1	.0	.0	15.8	
5-6	*	1.1	1.9	.0	.0	.0	3.0	
7	.0	.1	.5	.0	.0	.0	.6	
8-9	.0	*	.0	.1	.0	.0	.1	
10-11	.0	*	.0	*	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	61.7	14.5	.3	.0	.0	100.0	2044

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	20.0	13.7	2.8	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1053	2
6-7	*	4.5	8.0	3.9	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	452	4
8-9	.0	1.2	3.1	1.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	4
10-11	.0	1.7	1.2	.5	.1	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
12-13	.0	.0	1.2	.1	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
>13	.0	.0	.0	.3	.2	.0	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
INDET	11.3	8.9	4.7	1.9	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	677	2
TOTAL	406	904	796	265	87	20	7	2	4	0	0	0	0	0	0	0	0	0	0	2491	3
PCT	16.3	36.3	32.0	10.6	3.5	.8	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1884-1976

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.6	2.4	3.2	.0	.0	.0	.0	7.5	7.5	5.1	7.1	.0	2.8	.0	70.0
NE	19.3	1.8	.0	.0	.0	.0	.0	21.1	7.0	9.4	3.5	.0	.6	.0	60.8
E	1.6	4.1	.0	.0	.0	.0	.0	5.7	3.3	6.1	.0	.0	1.6	.0	84.9
SE	2.8	1.4	.5	.0	.0	.0	.0	4.7	3.0	5.8	.6	.3	1.0	.0	85.4
S	1.6	1.5	.0	.0	.0	.0	.0	3.1	3.1	4.6	.4	.0	.8	.1	88.4
SW	1.2	.9	.5	.0	.0	.0	.0	2.7	1.7	5.4	1.1	.0	1.7	.0	87.6
W	1.7	1.5	.3	.0	.0	.0	.0	3.5	1.4	8.1	2.6	.0	3.8	.0	81.4
NW	4.8	3.3	.0	.0	.0	.0	.0	8.1	4.5	8.8	1.0	.0	1.0	.0	78.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.8	.0	.0	.0	.0	.0	.8	6.5	5.6	8.9	.0	3.2	.0	75.0
TOT PCT TOT OBS:	2.0 2990	1.4	.3	.0	.0	.0	.0	3.7	2.9	5.7	1.4	*	1.6	*	85.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	2.0	1.4	.3	.0	.0	.0	.0	3.7	4.1	11.0	1.2	.0	1.6	.0		79.0
06009	3.2	2.0	.1	.0	.0	.0	.0	5.2	2.7	10.2	1.9	.0	.9	.0		80.4
12015	.9	.9	.2	.0	.0	.0	.0	2.1	2.3	.7	1.3	.0	1.8	.1		91.9
18021	1.8	1.4	.8	.0	.0	.0	.0	4.1	2.7	1.0	1.4	.1	1.8	.1		89.0
TOT PCT TOT OBS:	2.0 3158	1.4	.3	.0	.0	.0	.0	3.7	2.9	5.5	1.5	*	1.6	.1		85.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.6	1.1	.2	*	.0	.0	1.9	5.8	1.1	1.1	2.1	3.1	2.8	1.6	1.8	.5			
NE	.4	1.1	.2	*	*	.0	1.7	6.9	1.3	1.8	1.4	3.3	2.2	1.6	1.1	1.1			
E	.6	1.7	.2	*	*	.0	2.5	6.1	2.4	2.4	2.8	3.1	2.9	3.2	1.6	2.0			
SE	1.6	8.9	1.6	*	.0	.0	12.1	7.2	13.4	8.6	13.1	11.5	11.7	10.4	13.2	11.3			
S	3.7	24.4	4.0	*	*	.0	32.1	7.3	32.3	27.5	36.3	28.1	32.6	25.1	37.1	28.7			
SW	3.0	20.0	3.4	.1	*	.0	26.5	7.2	27.5	26.9	26.3	24.0	23.7	29.9	27.4	29.1			
W	2.0	11.0	1.9	*	.0	.0	15.0	7.1	14.0	22.1	10.2	16.6	14.2	20.0	12.5	19.7			
NW	.7	2.7	.3	*	.0	.0	3.7	6.2	2.5	3.5	3.5	6.0	5.2	4.1	2.4	2.5			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	4.5						4.5	.0	5.4	6.0	4.4	4.4	4.6	4.1	2.8	5.2			
TOT OBS	913	3780	635	11	3	0	5342		1025	368	780	458	1151	387	748	425			
TOT PCT	17.1	70.8	11.9	.2	.1	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.3	.5	*	*	.0		1.9	5.8	1.1	2.4	2.5	1.3		
NE	1.0	.5	.1	*	.0		1.7	6.9	1.4	2.1	2.0	1.1		
E	1.7	.8	*	*	.0		2.5	6.1	2.4	2.9	3.0	1.7		
SE	5.9	6.0	.1	*	.0		12.1	7.2	12.2	12.5	11.4	12.5		
S	14.8	17.0	.3	*	*		32.1	7.3	31.0	33.3	30.8	34.1		
SW	13.2	13.0	.2	*	*		26.5	7.2	27.4	25.4	25.3	28.0		
W	7.8	7.0	.2	.0	.0		15.0	7.1	16.2	12.6	15.7	15.1		
NW	2.4	1.3	*	.0	.0		3.7	6.2	2.8	4.4	4.9	2.4		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.5						4.5	.0	5.5	4.4	4.5	3.7		
TOT OBS	2813	2466	55	7	1	5342		6.8	1393	1238	1538	1173		
TOT PCT	52.7	46.2	1.0	.1	*		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1926-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.5	12.1	71.9	10.1	.3	.1	.0	.0	6.6	100.0	1393
06009	4.4	12.4	72.6	10.5	.2	.0	.0	.0	6.6	100.0	1238
12015	4.5	13.8	69.2	12.5	.1	.0	.0	.0	6.8	100.0	1538
18021	3.7	11.7	69.5	14.7	.3	.1	.0	.0	7.2	100.0	1173
TOT	243	670	3780	635	11	3	0	0	6.8		5342
PCT	4.5	12.5	70.8	11.9	.2	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.3	.3	.7	.6		5.4
NE	.2	.1	.3	.6		6.1
E	.4	.4	.5	.7		5.1
SE	3.8	3.5	4.2	1.5		4.1
S	10.6	12.7	11.4	4.0		4.0
SW	7.1	6.9	8.0	3.0		4.1
W	2.9	2.1	3.5	2.4		4.6
NW	.3	.9	1.1	.9		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.4	.6	1.3	.7		4.0
TOT OBS	679	689	778	359	2505	4.2
TOT PCT	27.1	27.5	31.1	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.1	.4	.3	.1	.0	.0	.1	1.0	
NE	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.7	
E	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	1.2	
SE	.0	.0	.0	.6	1.4	.7	.3	.0	.1	.0	9.8	
S	.1	.0	.7	1.6	3.0	2.3	.9	.2	.1	.4	29.9	
SW	.0	.1	.1	.8	2.2	1.6	.8	.1	.1	.3	18.8	
W	.1	.0	.1	.4	1.2	.6	.3	.1	.2	.4	7.5	
NW	.0	.0	.0	.2	.4	.2	.1	.0	.0	.0	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.3	.4	.3	.0	.0	.2	2.5	
TOT OBS	10	3	14	104	230	158	75	12	17	44	1838	2505
TOT PCT	.4	.1	.6	4.2	9.2	6.3	3.0	.5	.7	1.8	73.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.8	2.4	2.4	2.5	2.5	2.5	2.5	2.5
>5000	2.2	2.9	2.9	3.0	3.0	3.0	3.0	3.0
>3500	4.4	5.7	5.9	6.0	6.0	6.0	6.0	6.0
>2000	9.6	12.0	12.4	12.5	12.5	12.5	12.5	12.5
>1000	16.6	20.8	21.3	21.5	21.5	21.5	21.5	21.5
>600	19.3	24.7	25.5	25.6	25.7	25.7	25.7	25.7
>300	19.5	25.2	26.1	26.2	26.3	26.3	26.3	26.3
>150	19.6	25.3	26.2	26.3	26.4	26.4	26.4	26.4
>0	19.6	25.4	26.5	26.8	26.8	26.8	26.8	26.8
TOTAL	514	665	694	701	703	703	703	703

TOTAL NUMBER OF OBS: 2620

PCT FREQ NH <5/8: 73.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.0	11.8	19.2	17.7	12.9	6.8	7.5	5.0	7.8	.4	2763

PERIOD: (PRIMARY) 1926-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	*	.1	*	.0	.0	.2	
	TOT %	.0	.0	.0	.1	*	*	.1	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.1	*	.0	.0	*	.0	*	.0	.0	*	.2	
	TOT %	.1	*	.0	.0	*	*	.0	.0	.0	*	.2	
1<2	PCP	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	NO PCP	*	*	.0	.1	.1	.1	.3	*	.0	.1	.7	
	TOT %	*	*	.0	.1	.1	.1	.3	.1	.0	.1	.8	
2<5	PCP	*	.1	.1	*	.1	.0	.0	*	.0	.0	.3	
	NO PCP	.1	.1	.0	.1	.2	.5	.3	.1	.0	.5	1.8	
	TOT %	.1	.1	.1	.1	.2	.5	.3	.1	.0	.5	2.1	
5<10	PCP	.1	.1	*	.3	.6	.3	.1	.1	.0	*	1.7	
	NO PCP	.6	.3	.6	1.8	4.6	4.7	3.5	.5	.0	.5	17.1	
	TOT %	.7	.4	.6	2.1	5.2	5.0	3.6	.6	.0	.5	18.9	
10+	PCP	.0	.1	*	.2	.4	.4	.2	.1	.0	.0	1.4	
	NO PCP	1.2	.7	1.3	10.3	31.3	19.1	7.0	2.4	.0	3.0	76.3	
	TOT %	1.2	.8	1.3	10.6	31.7	19.5	7.2	2.5	.0	3.0	77.7	
TOT OBS		2.1	1.4	2.1	12.9	37.4	25.1	11.6	3.3	.0	4.1	100.0	2980
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	*	.1	*	*	.1	*	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	.2	*	*	.1	*	.0	.0	.4	
1/2<1	0-3	*	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	4-10	*	*	.0	*	.0	.0	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	.1	*	.0	*	*	*	.1	.0	.0	*	.3	
1<2	0-3	.0	.0	.0	.0	.0	*	.1	.0	.0	*	.1	
	4-10	.0	.0	.0	.1	.1	.1	.2	*	.0	.0	.5	
	11-21	*	*	.0	.0	.0	.0	.0	*	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.1	.1	.1	.2	.1	.0	*	.7	
2<5	0-3	*	*	*	*	.1	.1	*	*	.0	.4	.8	
	4-10	.1	*	*	.1	.2	.5	.4	.1	.0	.0	1.4	
	11-21	*	.1	.0	.1	.1	.1	.1	.0	.0	.0	.4	
	22+	.0	*	*	.0	.0	.0	*	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.4	.7	.5	.1	.0	.4	2.7	
5<10	0-3	.2	*	.2	.2	.7	.5	.4	.1	.0	.6	3.0	
	4-10	.3	.2	.4	1.2	3.7	4.3	2.7	.6	.0	.0	13.5	
	11-21	*	.1	.1	.4	.5	.6	.5	.1	.0	.0	2.3	
	22+	*	.0	*	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.6	.3	.7	1.8	4.9	5.5	3.7	.8	.0	.6	18.9	
10+	0-3	.3	.2	.3	.9	3.0	2.5	1.5	.5	.0	3.4	12.6	
	4-10	.7	.5	.8	7.4	22.3	15.2	5.9	1.8	.0	.0	54.7	
	11-21	.1	.1	.1	1.3	3.8	2.8	1.3	.3	.0	.0	9.6	
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	1.1	.8	1.2	9.7	29.1	20.6	8.6	2.6	.0	3.4	77.1	
TOT OBS		1.9	1.3	2.0	11.9	34.6	26.9	13.2	3.6	.0	4.5	100.0	4075
TOT PCT													

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1884-1976

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AREA 0011 IVORY COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.0	1.0	3.5	6.3	6.8	2.7	.5	.3	1.2	22.4	77.6	603
06009	.8	.0	.3	5.6	10.0	6.3	2.9	.3	.8	2.3	29.3	70.7	648
12015	.3	.3	.3	3.3	10.8	6.3	3.1	.6	.8	1.8	27.5	72.5	777
18021	.4	.1	.7	4.0	7.3	6.0	2.9	.4	.6	1.8	24.3	75.7	682
TOT	11	3	15	110	237	172	79	13	17	48	705	2005	2710
PCT	.4	.1	.6	4.1	8.7	6.3	2.9	.5	.6	1.8	26.0	74.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.3	.4	3.3	21.5	73.6	1040
06009	.8	.4	.4	3.3	20.7	74.5	1030
12015	.2	.2	.9	2.2	16.6	79.9	1184
18021	.1	.3	.7	2.2	17.8	78.8	988
TOT	16	12	31	116	810	3257	4242
PCT	.4	.3	.7	2.7	19.1	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.6	6.8	18.3	75.0	575
06009	.8	1.6	9.4	22.7	67.9	620
12015	.3	.9	5.8	23.0	71.2	756
18021	.4	1.3	6.9	18.5	74.6	669
TOT	11	35	187	544	1889	2620
PCT	.4	1.3	7.1	20.8	72.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.2	.1	.0	15	.6
85/89	.0	.0	.0	.0	.7	5.0	2.4	.3	209	8.5
80/84	.0	.0	.0	.2	1.2	23.3	44.3	8.0	1886	77.0
75/79	.0	.0	.0	.0	.0	1.2	8.1	4.3	334	13.6
70/74	.0	.0	.0	.0	.0	.0	.0	.2	6	.2
TOTAL	0	0	2	4	53	728	1347	316	2450	100.0
PCT	.0	.0	.1	.2	2.2	29.7	55.0	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.3	.2	.0	.0	.0	.0
.1	.1	.1	1.2	3.1	2.6	.9	.1	.0	.3
1.1	.7	1.5	9.9	30.8	20.4	8.2	1.8	.0	2.5
.9	.5	.5	2.3	4.3	2.0	1.7	1.1	.0	.4
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
2.1	1.5	2.0	13.5	38.6	25.2	10.9	3.0	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	84	83	81	77	75	64	80.7	1422
06009	88	85	83	81	76	74	68	80.4	1273
12015	93	90	87	83	79	76	63	82.8	1543
18021	92	88	85	82	78	76	68	81.9	1195
TOT	93	88	85	82	77	75	63	81.5	5433

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.8	18.4	62.0	18.8	85	608
06009	.0	.0	.8	18.8	59.5	20.9	85	655
12015	.0	.4	4.8	44.9	42.6	7.2	80	706
18021	.0	.5	1.8	32.2	56.1	9.4	82	627
TOT	0	6	55	754	1420	361	83	2596

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TABLE 17

AREA 0011 IVORY COAST
2.8N 0.2WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	*	*	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	*	3	.0	.1
9/10	.0	.0	.0	*	.2	.2	.1	14	*	.4
7/8	.0	.0	.0	.2	.2	.2	.1	22	.0	.8
6	.0	.0	.0	.1	.2	*	.0	10	.0	.3
5	.0	.0	.1	.3	.9	.3	.0	52	.0	1.8
4	.0	.0	.2	.8	1.2	.1	.0	67	.1	2.2
3	.0	.0	.3	1.5	1.1	.1	.0	85	*	2.9
2	.0	.1	.7	4.2	1.7	*	.0	198	.1	6.7
1	.0	*	1.8	8.4	1.6	*	.0	345	.1	11.7
0	.0	.1	3.7	15.7	.9	.0	.0	596	.3	20.1
-1	.0	.3	5.4	15.7	.4	*	.0	640	.2	21.7
-2	.0	.1	5.2	8.6	.1	.0	.0	405	.2	13.7
-3	.0	.2	3.4	3.5	.1	.0	.0	208	.1	7.1
-4	.0	.3	2.1	2.6	*	.0	.0	149	.2	4.9
-5	.0	.2	1.3	.6	.0	.0	.0	62	.1	2.1
-6	.0	.3	.5	.2	.0	.0	.0	30	*	1.0
-7/-8	.0	.4	.2	.1	.0	.0	.0	22	*	.7
-9/-10	.0	.2	.1	.0	.0	.0	.0	9	.1	.2
-11/-13	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2		731		253		6	2921	45	2876
PCT	.1	2.2	25.0	62.7	8.7	1.1	.2	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.1	.3	.0	.0	.0	.0	.4
1-2	.2	.4	.1	.0	.0	.0	.7	.1	.4	*	.0	.0	.0	.4
3-4	.0	.2	.1	.1	.0	.0	.3	.0	.1	.1	*	.0	.0	.3
5-6	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.0	.3	.1	.0	.0	2.0	.2	.8	.1	*	.0	.0	1.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.4	1.3	.2	.0	.0	.0	1.9
1-2	.1	.7	.1	.0	.0	.0	.9	.5	5.5	.8	.0	.0	.0	6.8
3-4	.1	.3	.1	*	.0	.0	.4	.1	2.0	.6	*	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	.1	*	.0	.0	1.7	.9	9.1	2.0	*	.0	.0	12.0

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.1	.0	.0	.0	.0	4.8	1.2	3.1	.1	.0	.0	.0	4.4
1-2	1.0	20.0	2.7	.0	.0	.0	23.7	.8	10.8	2.6	.0	.0	.0	14.2
3-4	.1	0.1	2.4	*	.0	.0	8.6	.1	4.1	1.4	.0	.0	.0	5.6
5-6	.0	.0	.7	.0	.0	.0	1.3	.0	.7	.4	.1	.0	.0	1.2
7	.0	.1	.3	.0	.0	.0	.4	.1	*	.1	.0	.0	.0	.2
8-9	.0	*	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	30.0	6.0	*	.0	.0	38.9	2.2	18.8	4.7	.1	.0	.0	25.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	1.8	*	.0	.0	.0	2.6	.1	.6	*	.0	.0	.0	.7	
1-2	.7	4.0	1.3	.0	.0	.0	6.0	.3	1.2	.3	.0	.0	.0	1.7	
3-4	.1	1.4	.4	.0	.0	.0	1.9	.0	.2	*	.0	.0	.0	.2	
5-6	.0	.1	.1	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.1	
7	.1	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	7.3	2.0	.0	.0	.0	11.0	.4	2.0	.4	.0	.0	.0	2.8	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	11.0	.3	.0	.0	.0	22.4	
1-2	4.1	42.0	7.6	.0	.0	.0	53.6	
3-4	.4	13.9	5.0	.2	.0	.0	19.4	
5-6	.0	1.7	1.6	.1	.0	.0	3.4	
7	.2	.2	.5	.0	.0	.0	.8	
8-9	.1	.1	.1	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.8	68.9	15.1	.2	.0	.0	100.0	1898

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.4	22.5	13.6	3.8	.9	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1043	3
6-7	.1	3.5	7.4	3.7	1.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	388	4
8-9	.0	1.4	2.6	2.4	1.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	4
10-11	.0	2.0	1.8	1.1	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	3
12-13	.0	.0	1.1	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
INDET	7.7	9.0	6.0	.9	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	565	2
TOTAL	265	902	762	299	102	13	6	0	1	0	0	0	0	0	0	0	0	0	0	0	2350	3
PCT	11.3	38.4	32.4	12.7	4.3	.6	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

MARCH

AREA 0011 IVORY COAST
2.9N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.8	4.5	.0	.0	.0	.0	.0	9.3	5.2	6.9	2.4	.0	2.8	.0	73.4
NE	9.3	12.7	.0	.0	.0	.0	.0	22.0	5.1	8.5	.4	.0	.0	.0	65.7
E	12.3	5.0	1.8	.0	.0	.0	.0	19.1	2.1	7.6	.0	.0	1.2	.0	72.4
SE	3.1	2.0	.4	.0	.0	.0	.0	5.5	4.0	5.3	.0	.0	.9	.0	84.7
S	.9	1.1	.3	.0	.0	.0	.0	2.2	2.3	6.4	*	.0	.6	.1	88.6
SW	1.2	1.7	.0	.0	.0	.0	.0	2.9	2.3	7.2	.1	.0	.7	.1	87.0
W	1.8	1.7	.3	.0	.0	.0	.0	3.8	1.6	8.1	1.3	.0	2.1	.0	83.7
NW	2.4	5.2	.0	.0	.0	.0	.0	7.5	1.3	6.3	.9	.0	4.1	.0	81.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.5	.0	.0	.0	.0	.5	2.5	5.5	3.0	.0	1.5	.0	87.0
TOT PCT	1.9	1.9	.3	.0	.0	.0	.0	4.0	2.5	6.7	.5	.0	1.1	.1	85.6
TOT OBS:	3323														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNQW	NO SIG WEA
00003	1.9	1.8	.5	.0	.0	.0	.0	4.1	2.9	13.9	.6	.0	.7	.1		78.0
06009	2.4	2.2	.2	.0	.0	.0	.0	4.8	2.7	9.6	.9	.0	.8	.0		81.7
12015	2.3	1.8	.2	.0	.0	.0	.0	4.3	2.7	1.0	.4	.0	1.2	.0		91.1
18021	1.7	1.5	.2	.0	.0	.0	.0	3.5	2.0	3.5	.0	.0	1.3	.1		90.0
TOT PCT	2.1	1.8	.3	.0	.0	.0	.0	4.2	2.6	6.8	.5	.0	1.0	.1		85.4
TOT OBS:	3511															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	1.4	.2	.1	.0	.0		2.3	6.6		1.3	3.1	3.8	4.9	2.5	.4	1.2	.9
NE	.5	1.2	.5	.1	*	.0		2.3	8.6		1.6	3.6	2.5	4.4	2.8	1.7	.8	1.7
E	.5	1.7	.5	*	*	.0		2.8	7.6		2.3	2.0	2.6	4.3	3.9	1.8	1.8	3.0
SE	1.4	8.1	2.0	.1	*	.0		11.6	7.7		11.9	8.6	12.8	9.8	12.2	9.9	13.2	10.6
S	3.7	21.8	4.2	.1	.0	.0		29.8	7.3		32.2	26.8	32.3	23.2	28.7	26.1	35.0	26.8
SW	2.9	20.3	4.0	.1	.0	.0		27.4	7.4		26.4	27.3	23.6	24.5	25.2	34.5	29.7	35.1
W	2.1	10.5	1.8	*	.0	.0		14.4	6.9		14.9	20.2	10.5	16.3	12.8	19.4	12.0	16.9
NW	.9	2.4	.4	*	.0	.0		3.8	6.4		2.7	2.9	3.5	7.2	5.2	2.5	3.3	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0		6.7	5.3	8.3	5.3	6.7	3.8	3.0	3.2
TOT OBS	1122	4141	842	30	4	0	6139		6.9		1166	435	879	546	1320	425	861	507
TOT PCT	18.3	67.5	13.7	.5	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.5	.7	.1	*	.0		2.3	6.6	1.8	4.3	2.0	1.1
NE	1.2	.8	.2	.1	.0		2.3	8.6	2.1	3.2	2.5	1.1
E	1.6	1.0	.2	*	.0		2.8	7.6	2.2	3.2	3.4	2.2
SE	5.3	5.9	.4	*	.0		11.6	7.7	11.0	11.7	11.6	12.2
S	14.1	15.3	.4	*	.0		29.8	7.3	30.8	28.8	28.1	32.0
SW	12.9	14.0	.4	*	.0		27.4	7.4	25.6	23.9	27.4	31.7
W	7.8	6.4	.2	*	.0		14.4	6.9	15.3	12.8	14.4	13.8
NW	2.4	1.4	*	.0	.0		3.8	6.4	2.7	4.9	4.6	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.7						5.7	.0	6.4	7.2	6.0	3.1
TOT OBS	3221	2788	117	13	0	6139		6.9	1601	1425	1745	1368
TOT PCT	52.5	45.4	1.9	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

MARCH

AREA 0011 IVORY COAST
2.9N 6.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.4	12.2	67.3	13.4	.4	.2	.0	6.9	100.0	1601
06009	7.2	13.4	67.8	11.4	.3	.0	.0	6.5	100.0	1425
12015	6.0	13.5	66.0	14.0	.5	.1	.0	6.9	100.0	1745
18021	3.50	10.9	69.2	16.2	.7	.0	.0	7.4	100.0	1368
TOT	350	772	4141	842	30	4	0	6.9		6139
PCT	5.7	12.6	67.5	13.7	.5	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.5	.6	.6		5.2
NE	.3	.3	.2	.7		5.6
E	.2	.4	.9	.9		5.9
SE	3.7	3.3	4.7	1.7		4.3
S	8.9	10.0	11.0	4.1		4.2
SW	7.1	6.8	8.8	3.5		4.2
W	2.7	2.4	4.0	2.0		4.7
NW	.6	.6	1.2	.9		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.2	2.3	.7		4.1
TOT OBS	732	730	963	431	2856	4.4
TOT PCT	25.6	25.6	33.7	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.2	.4	.2	.1	*	.0	*	1.0	
NE	*	.0	.1	.2	.2	.1	.0	*	*	*	.7	
E	.0	.0	*	.2	.5	.2	.0	*	*	*	1.3	
SE	.0	.1	.1	.3	1.4	1.0	.3	.1	*	.1	9.8	
S	.0	.0	.2	1.1	3.1	2.0	.8	*	.1	.2	26.4	
SW	.0	.0	.1	.8	2.3	1.7	.8	.1	*	.3	20.0	
W	.1	.0	.0	.4	1.2	1.0	.2	.1	*	.3	7.8	
NW	.0	.0	*	.2	.5	.6	.1	*	.1	.1	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.0	.1	.6	.6	.1	.0	*	.1	4.4	
TOT OBS	4	3	20	99	294	215	74	11	10	36	2090	2856
TOT PCT	.1	.1	.7	3.5	10.3	7.5	2.6	.4	.4	1.3	73.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.8	4.4	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	9.6	11.3	11.7	11.8	11.9	11.9	11.9	11.9
= OR >1000	17.3	21.0	21.9	22.0	22.1	22.2	22.2	22.2
= OR >600	20.2	24.3	25.3	25.5	25.6	25.7	25.7	25.8
= OR >300	20.7	24.9	26.0	26.2	26.3	26.4	26.4	26.5
= OR >150	20.7	25.0	26.1	26.3	26.4	26.5	26.6	26.6
= OR >0	20.7	25.0	26.1	26.3	26.5	26.6	26.7	26.7
TOTAL	618	745	780	786	790	792	796	797

TOTAL NUMBER OF OBS: 2983

PCT FREQ NH <5/8: 73.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	12.8	19.3	18.7	12.4	6.7	7.0	4.9	8.7	.1	3155

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	*	.0	.1	*	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	TOT %	.0	*	.1	*	.0	.1	.1	.0	.0	*	.3	
1/2<1	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	*	.0	*	.0	.0	.0	.0	.0	.1	.1	
1<2	PCP	.0	*	.0	.1	*	.0	.0	.1	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	*	.1	*	.0	.0	*	.3	
	TOT %	.1	*	.0	.1	.1	*	.1	.1	.0	*	.5	
2<5	PCP	*	.1	*	.1	.1	.1	*	.0	.0	.0	.5	
	NO PCP	.1	*	.1	.1	.2	.2	.3	*	.0	.2	1.3	
	TOT %	.2	.1	.1	.2	.3	.3	.4	*	.0	.2	1.8	
5<10	PCP	.1	.1	.2	.2	.3	.3	.2	.1	.0	.0	1.5	
	NO PCP	.3	.3	.4	1.6	3.4	3.0	1.6	.6	.0	.8	12.0	
	TOT %	.4	.4	.6	1.8	3.6	3.3	1.8	.6	.0	.8	13.5	
10+	PCP	.1	.1	.2	.4	.3	.3	.1	.1	.0	*	1.6	
	NO PCP	1.5	1.0	1.6	11.0	28.5	22.2	9.1	2.6	.0	4.8	82.3	
	TOT %	1.6	1.1	1.8	11.4	28.8	22.5	9.2	2.7	.0	4.8	83.8	
TOT OBS		3314											
TOT PCT		2.2	1.8	2.6	13.4	32.7	26.2	11.6	3.5	.0	6.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	*	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
	11-21	.0	*	*	.0	.0	*	*	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	.0	.1	*	.0	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	*	.1	
1<2	0-3	*	.0	.0	*	*	*	*	.0	.0	*	.2	
	4-10	*	.0	.0	*	*	.1	.1	.1	.0	.0	.4	
	11-21	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	*	.1	.1	.1	.1	.1	.0	*	.7	
2<5	0-3	*	.0	*	*	.1	.1	.1	*	.0	.2	.6	
	4-10	.1	*	.1	*	.2	.1	.2	*	.0	.0	.8	
	11-21	.0	.1	.1	.1	*	.1	.1	*	.0	.0	.5	
	22+	.1	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.2	.2	.3	.3	.4	.1	.0	.2	2.0	
5<10	0-3	.1	.1	.1	.2	.5	.3	.2	.0	.0	1.0	2.7	
	4-10	.2	.2	.4	1.0	2.3	2.6	1.2	.3	.0	.0	8.2	
	11-21	.1	*	.1	.2	.7	.6	.4	.1	.0	.0	2.3	
	22+	.0	*	*	.1	.0	*	.0	.0	.0	.0	.2	
	TOT %	.4	.4	.6	1.5	3.5	3.6	1.8	.6	.0	1.0	13.4	
10+	0-3	.4	.2	.3	1.2	3.0	2.4	1.5	.6	.0	5.0	14.6	
	4-10	1.1	.7	1.0	7.4	20.6	17.9	7.6	1.7	.0	.0	57.9	
	11-21	.2	.3	.4	1.7	3.6	3.3	1.2	.3	.0	.0	10.9	
	22+	*	*	.0	.0	*	.0	*	*	.0	.0	.2	
	TOT %	1.6	1.3	1.7	10.2	27.2	23.6	10.3	2.6	.0	5.0	83.5	
TOT OBS		4407											
TOT PCT		2.2	1.9	2.6	12.1	31.1	27.7	12.7	3.4	.0	6.3	100.0	

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PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976AREA 0011 IVORY COAST
2.9N 6.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.3	.4	2.4	8.9	4.8	1.9	.7	.6	.6	20.9	79.1	671
06009	.1	.1	.8	5.0	10.1	8.1	2.4	.4	.1	.9	28.0	72.0	765
12015	.0	.0	.8	3.8	10.9	7.7	3.6	.1	.3	1.3	28.5	71.5	869
18021	.3	.0	.8	2.7	9.5	8.0	1.8	.3	.4	2.0	25.6	74.4	789
TOT	4	3	22	108	307	224	76	11	11	38	804	2290	3094
PCT	.1	.1	.7	3.5	9.9	7.2	2.5	.4	.4	1.2	26.0	74.0	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.1	.7	1.5	16.2	81.3	1135
06009	.6	.3	.8	2.9	14.6	80.7	1095
12015	.2	.2	1.0	1.4	11.3	85.8	1287
18021	.2	.0	.3	2.3	10.9	86.3	1078
TOT	14	7	33	92	608	3841	4595
PCT	.3	.2	.7	2.0	13.2	83.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	.9	5.0	17.1	77.9	638
06009	.3	1.8	9.1	21.3	69.6	733
12015	.1	1.3	6.1	23.1	70.7	847
18021	.3	1.0	5.2	21.7	73.1	765
TOT	6	38	191	627	2165	2983
PCT	.2	1.3	6.4	21.0	72.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	*	.0	.0	.0	2	.1
90/94	.0	.0	.0	*	.5	.4	*	.0	26	1.0
85/89	.0	.0	.0	.1	1.0	8.8	2.5	.5	339	12.9
80/84	.0	.0	.0	.0	.8	23.3	44.6	7.3	2004	76.1
75/79	.0	.0	.0	.0	.0	.7	4.1	4.6	248	9.4
70/74	.0	.0	.0	.0	.0	.0	.2	.4	16	.6
TOTAL	0	0	0	4	61	875	1358	337	2635	100.0
PCT	.0	.0	.0	.2	2.3	33.2	51.5	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	*	.0	.0	.0	.0
*	*	.0	.2	.5	.1	.1	*	.0	*
.1	*	.2	2.0	5.2	3.6	1.0	.3	.0	.3
1.4	.9	1.2	10.8	27.2	19.9	8.9	1.9	.0	3.8
.5	.7	.6	1.3	1.6	1.6	1.4	1.0	.0	.7
.1	.1	*	.1	*	*	.0	.2	.0	*
2.1	1.7	2.0	14.3	34.7	25.3	11.4	3.4	.0	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	85	84	81	77	74	63	81.1	1654
06009	96	86	84	81	77	73	63	80.9	1460
12015	95	91	88	83	78	75	68	83.4	1771
18021	95	90	86	82	79	75	68	82.3	1384
TOT	96	90	86	82	78	74	63	82.0	6269

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.4	21.0	60.5	18.0	84	676
06009	.0	.1	.3	22.8	56.9	19.9	84	685
12015	.0	.1	4.8	48.3	39.7	7.0	79	755
18021	.0	.3	3.2	38.9	48.9	8.7	81	689
TOT	0	4	63	931	1436	371	82	2805

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATUR (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	.1	5	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	*	.2	7	.0	.2
9/10	.0	.0	.0	.0	*	*	.1	.2	.1	13	.0	.4
7/8	.0	.0	.0	.0	.0	.2	.3	.4	*	30	.0	.9
6	.0	.0	.0	.0	.0	.2	.2	.3	*	26	.0	.8
5	.0	.0	.0	.0	.1	.5	.8	.3	*	56	*	1.7
4	.0	.0	.0	.0	.1	.7	1.3	.2	.0	73	.0	2.3
3	.0	.0	.0	.0	.3	.9	1.2	.1	.0	80	.0	2.5
2	.0	.0	.0	.0	.4	3.9	2.9	.1	.0	232	.0	7.2
1	.0	.0	.0	.0	1.0	6.8	2.0	*	.0	316	*	9.8
0	.0	.0	.0	.2	2.2	14.9	2.1	.0	.0	625	.2	19.3
-1	.0	.0	.0	.1	2.5	15.7	1.3	.0	.0	627	.1	19.4
-2	.0	.0	.1	.1	2.3	12.3	.4	.0	.0	485	.1	15.0
-3	.0	.0	.0	.1	2.2	4.8	.1	.0	.0	232	*	7.2
-4	.0	*	.0	.2	1.9	3.2	*	.0	.0	171	*	5.3
-5	.0	.0	.0	.2	1.9	1.7	.2	.0	.0	125	.0	3.9
-6	.0	.0	.0	.1	.5	.3	.0	.0	.0	31	.0	1.0
-7/-8	.0	.0	.0	.4	.9	.3	.0	.0	.0	52	.0	1.6
-9/-10	.0	.0	*	.1	.1	.1	.0	.0	.0	12	.0	.4
-11/-13	.0	.0	*	.1	*	.0	.0	.0	.0	5	.0	.2
-14/-16	.0	.1	*	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	*	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	*	*
TOTAL	3	5	6	47	526	2141	417	51	15	3211	16	3195
PCT	.1	.2	.2	1.5	16.4	66.7	13.0	1.6	.5	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.1	.0	.0	.0	.6	.2	.4	*	.0	.0	.0	.6
1-2	.2	.7	.1	.0	.0	.0	.9	.2	.2	.3	.0	.0	.0	.7
3-4	.0	.3	.1	.0	.0	.0	.4	.0	*	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	.3	.0	.0	.0	2.0	.3	.6	.7	.0	.0	.0	1.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	*	.0	.0	.0	.6	.7	1.3	.2	.0	.0	.0	2.2
1-2	.1	.8	.2	.0	.0	.0	1.0	.5	5.6	.8	.0	.0	.0	7.0
3-4	.0	.2	.2	.0	.0	.0	.4	*	1.5	1.1	.0	.0	.0	2.6
5-6	.0	*	.2	.0	.0	.0	.2	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	.6	.0	*	.0	2.3	1.3	8.6	2.6	.0	.0	.0	12.5

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0011 IVORY COAST
2.9N 6.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.8	3.8	.2	.0	.0	.0	5.8	1.3	4.9	.3	.0	.0	.0	.0	6.6
1-2	.9	15.7	2.0	.0	.0	.0	18.6	.6	12.3	1.6	.0	.0	.0	.0	14.4
3-4	.2	5.0	2.6	.0	.0	.0	7.9	*	2.4	1.3	.0	.0	.0	.0	3.8
5-6	.0	.6	.4	.0	.0	.0	1.0	.0	.2	.5	.0	.0	.0	.0	.7
7	.0	.1	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	25.3	5.3	*	.0	.0	33.5	1.9	19.9	3.8	*	.0	.0	.0	25.6

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.1	2.2	.1	.0	.0	.0	3.5	.5	.8	*	.0	.0	.0	.0	1.3	
1-2	.3	4.7	.7	.0	.0	.0	5.7	.2	1.5	.3	.0	.0	.0	.0	2.0	
3-4	.0	1.2	.8	.0	.0	.0	2.0	.0	.1	.1	.0	.0	.0	.0	.1	
5-6	.0	.3	.2	.0	.0	.0	.5	.0	*	.0	.0	.0	.0	.0	*	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	8.5	1.9	.0	.0	.0	11.8	.7	2.4	.4	*	.0	.0	.0	3.5	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.1	13.9	1.0	.0	.0	.0	29.0	
1-2	3.4	40.9	5.9	.0	.0	.0	50.2	
3-4	.3	10.5	6.1	.0	.0	.0	16.9	
5-6	.0	1.4	1.8	.0	.0	.0	3.2	
7	.0	.1	.3	.1	.0	.0	.5	
8-9	.0	.0	.0	*	*	.0	.1	
10-11	.0	.0	.0	*	.0	.0	*	
12	.0	*	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.8	66.8	15.2	.1	*	.0	100.0	2176

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.9	19.0	12.1	3.3	.6	*	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1055	3
6-7	.1	2.5	7.9	4.3	1.7	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	452	4
8-9	.0	1.2	3.3	2.7	1.0	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	4
10-11	.0	1.6	1.3	.9	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	4
12-13	.0	.0	2.7	.6	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
>13	.0	.0	.0	.0	.4	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
INDET	9.7	8.1	5.7	2.0	.6	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	701	2
TOTAL	369	870	886	394	127	20	9	8	3	3	0	0	0	0	0	0	0	0	0	2689	3
PCT	13.7	32.4	32.9	14.7	4.7	.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0011 IVORY COAST
2.9N 6.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	8.4	2.7	.0	.0	.0	.0	.0	11.1	9.5	10.5	1.4	.0	.0	.0	69.6
NE	18.1	6.5	2.6	.0	.0	.0	.0	27.2	2.3	4.9	.0	.0	.6	.0	67.0
E	5.0	3.8	1.6	.0	.0	.0	.0	10.3	6.0	2.8	.0	.0	.4	.0	81.1
SE	2.2	1.9	.3	.0	.0	.0	.0	4.5	4.1	4.2	.2	.0	.0	.0	87.3
S	3.1	2.0	.7	.0	.0	.0	.0	5.8	4.5	6.0	.3	.0	.1	.0	84.0
SW	4.6	2.0	.4	.0	.0	.0	.0	7.0	3.1	6.9	.0	.0	.2	.1	83.1
W	2.8	1.7	.6	.0	.0	.0	.0	5.1	2.9	6.7	.0	.0	.0	.0	86.0
NW	6.9	4.1	.7	.0	.0	.0	.0	11.8	6.9	7.5	.7	.0	2.2	.0	72.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	1.7	1.1	.0	.0	.0	.0	4.4	1.7	5.0	.6	.0	.0	.0	88.4
TOT PCT	3.9	2.2	.7	.0	.0	.0	.0	6.8	4.0	6.0	.2	.0	.2	*	83.4
TOT OBS:	3371														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	3.0	1.9	1.0	.0	.0	.0	.0	5.9	3.6	12.1	.4	.0	.1	.0	.0	78.6
06009	5.5	2.7	.7	.0	.0	.0	.1	8.9	4.5	8.5	.3	.0	.0	.1	.0	79.0
12015	4.1	2.2	.4	.0	.0	.0	.0	6.7	4.1	1.2	.1	.0	.4	.0	.0	87.9
18021	3.2	2.5	.7	.0	.0	.0	.0	6.4	4.3	3.0	.1	.0	.2	.1	.0	86.1
TOT PCT TOT OBS:	4.0 3582	2.3	.7	.0	.0	.0	*	7.0	4.1	6.0	.2	.0	.2	.1	.0	83.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.3	1.7	.2	*	.0	.0	2.3	6.9	1.9	1.7	2.6	3.7	2.4	.9	2.4	2.3	
NE	.5	1.5	.4	*	.0	.0	2.4	7.2	1.1	3.1	3.8	5.1	2.6	1.0	1.9	1.2	
E	.8	2.1	.7	*	.0	.0	3.6	7.3	3.2	4.0	4.0	4.5	3.9	3.3	2.4	3.9	
SE	1.4	9.7	2.4	.1	*	.0	13.6	7.8	13.6	10.4	14.0	12.0	15.7	11.3	15.0	11.5	
S	3.1	21.2	4.3	.1	.0	.0	28.7	7.5	29.4	23.8	29.1	25.2	28.5	25.9	33.9	28.4	
SW	2.4	20.2	3.9	*	.0	.0	26.6	7.5	29.1	31.0	23.0	23.8	22.1	34.6	25.5	32.2	
W	1.5	9.8	1.9	.1	.0	.0	13.2	7.4	11.0	16.1	11.3	15.2	13.5	17.2	11.7	14.9	
NW	.8	3.3	.5	*	.0	.0	4.5	6.8	4.1	5.0	5.4	6.1	5.7	2.3	3.1	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1						5.1	.0	6.4	4.9	6.8	4.3	5.6	3.5	4.1	2.2	
TOT OBS	954	4155	858	19	1	0	5987		7.1	1104	429	867	506	1273	451	846	511
TOT PCT	15.9	69.4	14.3	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.3	.9	.1	.0	.0		2.3	6.9	1.8	3.0	2.0	2.3
NE	1.3	1.0	.1	*	.0		2.4	7.2	1.6	4.3	2.1	1.6
E	2.0	1.5	.1	*	.0		3.6	7.3	3.5	4.2	3.7	3.0
SE	5.9	7.4	.3	*	.0		13.6	7.8	12.7	13.3	14.5	13.7
S	13.2	14.8	.7	.0	.0		28.7	7.5	27.9	27.7	27.8	31.8
SW	12.0	14.2	.4	.0	.0		26.6	7.5	29.6	23.3	25.4	28.0
W	6.4	6.5	.3	.0	.0		13.2	7.4	12.4	12.7	14.5	12.9
NW	2.5	2.0	.1	.0	.0		4.5	6.8	4.4	5.7	4.8	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	6.0	5.9	5.0	3.4
TOT OBS	2971	2889	123	4	0	5987		7.1	1533	1373	1724	1357
TOT PCT	49.6	48.3	2.1	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0011 IVORY COAST
2.9N 6.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.0	10.6	70.1	13.0	.3	.0	.0	6.9	100.0	1533
06009	5.9	11.0	69.3	13.5	.3	.0	.0	7.0	100.0	1373
12015	5.0	11.5	68.6	14.4	.4	.1	.0	7.1	100.0	1724
18021	3.4	9.9	69.8	16.7	.2	.0	.0	7.5	100.0	1357
TOT	306	648	4155	858	19	1	0	7.1	100.0	5987
PCT	5.1	10.8	69.4	14.3	.3	*	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	.2	1.0	.9		6.3
NE	.3	.3	.8	.8		5.8
E	.9	.7	1.0	.7		4.5
SE	2.9	4.8	5.3	2.4		4.6
S	5.5	7.9	13.6	5.1		4.9
SW	4.0	6.3	10.2	4.5		5.0
W	1.5	2.1	4.7	1.7		5.1
NW	.4	.9	1.4	1.4		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.8	1.4	1.4	.9		4.0
TOT OBS	503	710	1140	531	2886	5.0
TOT PCT	17.5	24.6	39.5	18.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.0	*	.2	.6	.1	.1	.1	.1	.1	1.0	
.0	.0	.1	.2	.3	.3	.1	*	*	*	1.1	
.0	.0	.1	.3	.4	.3	.1	.0	.0	.1	2.2	
*	.0	.1	.8	1.9	1.2	.4	.0	*	.1	10.9	
.1	*	.2	2.1	4.4	2.7	1.0	.2	*	.4	21.0	
.1	.0	.4	1.4	2.8	2.1	.8	.3	.1	.2	16.9	
*	.0	*	.5	1.0	1.5	.4	.1	.1	.1	6.5	
*	.0	*	.5	1.7	.2	*	.1	.0	*	2.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.1	.1	.2	.7	.5	.1	.0	.1	.0	3.8	
9	3	29	175	369	253	85	20	12	30	1901	2886
.3	.1	1.0	6.1	12.8	8.8	2.9	.7	.4	1.0	65.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >3500	4.4	5.3	5.4	5.4	5.4	5.4	5.4	5.4
* OR >2000	11.4	13.6	13.9	14.0	14.1	14.1	14.1	14.1
* OR >1000	21.4	25.7	26.2	26.4	26.5	26.5	26.6	26.6
* OR >800	25.6	31.0	32.1	32.3	32.5	32.5	32.6	32.6
* OR >300	26.2	31.8	33.1	33.3	33.5	33.5	33.7	33.7
* OR >150	26.3	31.9	33.2	33.4	33.6	33.6	33.8	33.8
* OR >0	26.4	32.1	33.4	33.8	33.9	34.0	34.1	34.1
TOTAL	797	970	1010	1021	1025	1027	1031	1031

TOTAL NUMBER OF OBS: 3022

PCT FREQ NH <5/8: 65.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
5.0	11.2	18.2	16.9	14.3	7.4	9.4	7.3	10.1	.3	3197

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0011 IVORY COAST
2.9N 6.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	*	*	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	*	*	*	*	*	.0	.0	.1	
1/2<1	PCP	.0	*	.0	.0	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	TOT %	.0	*	.0	.0	.0	*	*	.1	.0	.0	.1	
1<2	PCP	*	.1	*	.0	*	.1	*	*	.0	.0	.3	
	NO PCP	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	*	*	*	.2	*	*	.0	.0	.4	
2<5	PCP	.1	.1	.1	.1	.2	.2	*	.1	.0	*	.8	
	NO PCP	*	.0	*	.0	.1	.1	.1	.1	.0	*	.4	
	TOT %	.1	.1	.1	.1	.3	.2	.1	.1	.0	.1	1.2	
5<10	PCP	*	.3	.1	.2	.7	.8	.2	.2	.0	.1	2.5	
	NO PCP	.3	.4	.7	1.8	3.6	2.4	1.4	.8	.0	.4	11.9	
	TOT %	.3	.7	.8	2.0	4.3	3.2	1.6	1.1	.0	.5	14.4	
10+	PCP	.1	.1	.2	.4	.9	.7	.3	.1	.0	.1	2.9	
	NO PCP	1.6	1.3	2.6	13.1	25.8	20.6	8.6	2.6	.0	4.6	80.8	
	TOT %	1.7	1.4	2.8	13.5	26.7	21.2	8.9	2.8	.0	4.7	83.7	
TOT OBS		3363											
TOT PCT		2.2	2.3	3.7	15.6	31.4	24.9	10.6	4.0	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	
	11-21	.0	.0	*	*	*	.0	*	*	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	*	*	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	*	.0	.0	.0	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.0	.0	.1	*	*	.0	.0	.1	
1<2	0-3	*	.0	.0	.0	*	.0	.0	*	.0	.0	*	
	4-10	*	*	.0	*	*	*	.0	*	.0		.1	
	11-21	.0	*	*	*	*	.1	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	.1	.1	.1	*	*	.0	.0	.4	
2<5	0-3	.0	*	*	.0	*	*	.0	*	.0	*	.2	
	4-10	.1	.1	*	.1	.2	.2	.1	.1	.0	.0	.9	
	11-21	*	*	.1	*	.1	*	*	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.1	.4	.3	.1	.1	.0	*	1.4	
5<10	0-3	.1	.1	.1	.2	.7	.3	.2	.1	.0	.6	2.4	
	4-10	.3	.5	.5	1.0	2.6	2.3	1.2	.7	.0		9.1	
	11-21	*	.1	.2	.5	.8	.7	.2	.2	.0		2.8	
	22+	*	*	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.4	.7	.9	1.8	4.0	3.4	1.6	1.0	.0	.6	14.4	
10+	0-3	.2	.3	.6	1.3	2.4	1.8	1.0	.6	.0	4.8	13.1	
	4-10	1.3	1.0	1.7	9.2	19.5	16.8	7.3	2.3	.0		59.0	
	11-21	.2	.2	.5	2.1	3.7	2.9	1.4	.3	.0		11.4	
	22+	.0	.0	*	*	*	.0	*	.0	.0	.0	.1	
	TOT %	1.7	1.5	2.8	12.6	25.6	21.5	9.8	3.2	.0	4.8	83.5	
TOT OBS		4413											
TOT PCT		2.3	2.4	3.9	14.6	30.1	25.4	11.5	4.4	.0	5.4	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0011 IVORY COAST
2.9N 6.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00603	.6	.0	.7	5.5	10.2	6.0	1.4	.3	.6	2.4	27.8	72.2	695
06609	.5	.3	1.8	5.5	14.9	9.8	2.9	1.0	.5	1.0	38.2	61.8	786
12615	.2	.1	.8	5.8	10.6	9.4	4.2	.9	.1	.7	32.9	67.1	875
18621	.3	.0	.6	6.3	12.9	8.1	2.6	.6	.4	1.0	32.9	67.1	776
TOT	12	3	31	181	381	264	90	23	12	39	1036	2096	3132
PCT	.4	.1	1.0	5.8	12.2	8.4	2.9	.7	.4	1.2	33.1	66.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.2	.1	.2	1.2	15.3	83.1	1123
06609	.3	.3	.8	2.5	16.9	79.3	1133
12615	.1	.2	.5	1.0	12.3	85.8	1282
18621	.2	.2	.2	1.3	13.4	84.7	1087
TOT	8	9	20	68	667	3853	4625
PCT	.2	.2	.4	1.5	14.4	83.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00603	.6	1.5	7.7	21.4	70.9	659
06609	.4	2.6	10.3	29.3	60.4	757
12615	.2	1.6	8.1	25.6	66.3	851
18621	.3	1.3	8.2	25.8	66.0	755
TOT	11	54	260	776	1986	3022
PCT	.4	1.8	8.6	25.7	65.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.3	.1	.0	17	.6
85/89	.0	.0	.0	.1	1.4	8.6	2.2	.3	347	12.5
80/84	.0	.0	.0	.*	.8	26.2	42.3	6.8	2106	76.2
75/79	.0	.0	.0	.0	.*	.6	5.6	4.1	287	10.4
70/74	.0	.0	.0	.0	.0	.0	.0	.3	8	.3
TOTAL	0	0	0	3	70	987	1388	317	2765	100.0
PCT	.0	.0	.0	.1	2.5	35.7	50.2	11.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	*	.1	*	.2	.1	.1	*	.0	*
85	.1	.2	.3	2.1	4.0	3.4	1.4	.2	.0	.9
80	1.2	1.0	2.4	12.5	25.8	19.4	7.6	2.7	.0	3.7
75	.8	.9	.8	1.5	2.1	1.6	1.0	1.2	.0	.4
70	.0	.1	*	.1	*	.0	.0	.0	.0	.0
TOT	2.1	2.3	3.6	16.2	32.1	24.5	10.1	4.1	.0	5.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	90	86	84	82	78	75	71	81.4	1577
06609	93	86	84	81	77	75	68	81.2	1416
12615	97	91	88	83	78	75	72	83.5	1763
18621	93	89	86	82	78	75	71	82.3	1379
TOT	97	89	86	82	78	75	68	82.1	6135

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.6	27.8	59.5	12.1	83	702
06609	.0	.0	.3	23.8	59.4	16.5	84	717
12615	.0	.4	6.3	49.6	35.1	8.6	79	794
18621	.0	.0	2.8	39.7	47.2	10.3	81	702
TOT	0	3	76	1039	1454	343	82	2915

APRIL

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

TABLE 17

AREA 0011 IVORY COAST
2.9N 6.1WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	*	.2	6	.0	.2
9/10	.0	.0	.0	.0	.1	*	.2	*	11	.0	.3
7/8	.0	.0	.0	*	.1	*	.2	*	13	.0	.4
6	.0	.0	.0	*	.1	.2	.2	.0	16	.0	.5
5	.0	.0	.0	.1	.3	.6	.2	.1	40	.0	1.2
4	.0	.0	.0	.0	.3	1.2	.3	.0	58	.0	1.8
3	.0	.0	.0	.1	.7	1.2	.2	.0	73	.0	2.2
2	.0	.0	.0	.1	2.0	1.8	.1	.0	132	.0	4.0
1	.0	.0	.0	.4	4.8	3.0	.1	.0	272	.0	8.3
0	.0	.0	.0	1.1	12.7	2.9	*	.0	548	.0	16.7
-1	.0	.0	*	1.6	16.7	1.7	.0	.0	660	.1	20.0
-2	.0	.0	*	2.4	13.6	.6	.0	.0	546	*	16.6
-3	.0	.0	*	3.0	6.3	.3	.0	.0	319	*	9.7
-4	.0	.0	*	3.1	4.4	.1	.0	.0	249	*	7.5
-5	.0	.0	.2	2.5	2.0	.1	.0	.0	159	.0	4.8
-6	.0	.0	.1	1.2	.6	.0	.0	.0	60	.0	1.8
-7/-8	.0	.0	.3	1.2	.6	*	.0	.0	71	*	2.1
-9/-10	.0	.0	.5	.5	.1	.0	.0	.0	37	.0	1.1
-11/-13	.0	.1	.1	.2	*	.0	.0	.0	12	.0	.4
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	2	43	570	2154	454	51	11	3286	6	3280
PCT	*	.1	1.3	17.3	65.6	13.8	1.6	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.6	*	.3	.0	.0	.0	.0	.3
1-2	.2	1.0	.2	.0	.0	.0	1.4	.2	.9	.1	.0	.0	.0	1.2
3-4	.0	.3	.1	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	*	.0	.0	.0	.0	*	.0	*	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	.3	.0	.0	.0	2.4	.2	1.5	.4	*	.0	.0	2.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.1	.0	.0	.0	.6	.3	1.3	*	.0	.0	.0	1.7
1-2	.2	1.1	.5	.0	.0	.0	1.7	.9	6.6	1.2	.0	.0	.0	8.7
3-4	*	.3	.3	.0	.0	.0	.7	*	2.4	1.6	.0	.0	.0	4.1
5-6	.0	.1	.1	*	.0	.0	.2	*	.1	.6	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.8	1.0	*	.0	.0	3.2	1.3	10.6	3.6	.0	.0	.0	15.5

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0011 IVORY COAST
2.9N 6.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.7	.2	.0	.0	.0	4.8	.6	3.4	.2	.0	.0	.0	4.1
1-2	1.0	14.6	2.1	.0	.0	.0	17.7	.6	12.5	1.8	.0	.0	.0	14.8
3-4	.0	4.8	2.7	.0	.0	.0	7.5	.0	3.9	1.9	.0	.0	.0	5.8
5-6	.0	.8	.8	.0	.0	.0	1.6	.0	.4	.9	.0	.0	.0	1.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	23.9	5.8	.0	.0	.0	31.8	1.1	20.4	4.7	.0	.0	.0	26.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.3	.0	.0	.0	.0	1.8	.3	.6	.0	.0	.0	.0	1.0	
1-2	.3	4.3	.8	.0	.0	.0	5.4	.3	1.7	.3	.0	.0	.0	2.2	
3-4	.0	1.5	.5	.0	.0	.0	2.0	.0	.4	.1	.0	.0	.0	.5	
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	7.4	1.5	.0	.0	.0	9.7	.6	2.7	.6	.0	.0	.0	3.9	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.2	11.7	.5	.0	.0	.0	21.4	
1-2	4.0	41.7	6.8	.0	.0	.0	52.5	
3-4	.2	13.6	7.1	.0	.0	.0	21.0	
5-6	.0	1.6	2.6	.0	.0	.0	4.2	
7	.0	.1	.4	.0	.0	.0	.5	
8-9	.0	.1	.0	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.2	.0	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.5	69.0	17.5	.1	.0	.0	100.0	2223

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	17.6	12.1	3.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1031	3
6-7	.1	3.1	8.8	5.4	1.2	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	537	4
8-9	.0	1.6	3.0	3.8	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	282	4
10-11	.0	1.8	1.8	1.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	4
12-13	.0	.0	2.1	.8	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	4
>13	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
INDET	6.5	7.3	5.5	2.5	.9	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	637	2
TOTAL	262	862	916	487	143	43	20	12	6	1	0	0	0	0	0	0	0	0	0	2752	3
PCT	9.5	31.3	33.3	17.7	5.2	1.6	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0011 IVORY COAST
2.8N 6.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	6.8	6.0	.0	.0	.0	.0	.0	12.8	.0	2.3	.0	.0	.0	.0	87.2
NE	10.8	8.6	4.3	.0	.0	.0	.0	23.7	4.8	4.3	.0	.0	.0	.0	67.2
E	14.0	7.3	1.1	.0	.0	.0	.0	22.3	8.6	1.9	.0	.0	.0	.0	68.3
SE	3.7	3.4	.6	.0	.0	.0	.0	7.7	5.0	2.0	.3	.0	.6	.0	84.8
S	3.5	3.4	.6	.0	.0	.0	.0	7.5	6.7	3.4	.1	.0	.0	.1	82.7
SW	6.1	3.0	1.8	.0	.0	.0	.0	10.9	6.3	4.3	.2	.0	.2	.2	79.0
W	5.2	5.3	.4	.0	.0	.0	.0	10.9	7.7	8.8	.0	.0	.0	.0	73.6
NW	5.7	8.3	6.1	.0	.0	.0	.0	20.1	3.8	1.9	.0	.0	.0	.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	3.6	.0	.0	.0	.0	.0	4.5	2.7	3.6	.9	.0	.0	.0	88.3
TOT PCT	4.5	3.8	.9	.0	.0	.0	.0	9.2	6.0	3.4	.2	.0	.2	.1	81.6
TOT OBS:	3174														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	3.7	3.6	1.0	.0	.0	.0	.0	8.3	6.1	7.5	.1	.0	.2	.0	78.6
06009	6.1	4.4	.8	.0	.0	.0	.0	11.3	6.3	4.3	.4	.0	.1	.1	78.8
12015	4.4	4.4	1.1	.0	.0	.0	.0	10.0	6.5	.7	.1	.0	.0	.1	82.7
18021	4.2	2.8	.9	.0	.0	.0	.0	7.9	5.3	1.9	.5	.0	.4	.0	84.3
TOT PCT	4.6	3.8	1.0	.0	.0	.0	.0	9.4	6.1	3.5	.3	.0	.2	.1	81.1
TOT OBS:	3334														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.5	.1	.0	.0	.0			.9	7.0	.5	2.1	1.3	1.6	1.0	.1	.5	.0
NE	.3	1.0	.2	.0	.0	.0			1.4	6.6	.9	1.1	1.4	2.5	1.8	1.5	.5	
E	.4	2.2	.4	.1	.0	.0			3.0	7.7	2.5	3.0	2.2	4.5	3.5	3.4	2.7	2.9
SE	1.1	13.9	7.9	.2	.0	.0			23.1	9.5	25.2	16.0	25.9	18.6	23.5	17.0	29.1	18.5
S	1.8	23.5	11.5	.3	.0	.0			37.2	9.2	38.6	32.6	38.2	34.8	37.1	36.3	39.1	36.4
SW	1.6	14.6	4.6	.2	.0	.0			20.9	8.3	21.1	28.3	17.3	21.8	18.1	25.5	18.1	26.9
W	.8	5.9	1.5	.*	.0	.0			8.2	7.6	7.6	12.2	5.5	10.1	8.3	11.4	5.5	10.8
NW	.3	1.5	.3	.0	.0	.0			2.1	7.0	1.3	2.3	2.1	4.0	3.1	.7	1.6	1.4
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2								3.2	.0	2.4	2.4	6.1	2.0	3.5	3.9	1.8	2.6
TOT OBS	559	3665	1538	44	0	0	5806		8.5		1105	413	849	501	1185	439	819	495
TOT PCT	9.6	63.1	26.5	.8	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.4	.4	.*	.0	.0		.9	7.0	.9	1.4	.8	.3
NE	.9	.5	.1	.0	.0		1.4	6.6	.9	1.8	1.8	1.1
E	1.5	1.4	.1	.*	.0		3.0	7.7	2.6	3.1	3.5	2.8
SE	6.3	15.7	1.1	.*	.0		23.1	9.5	22.7	23.2	21.8	25.1
S	11.1	24.1	2.0	.*	.0		37.2	9.2	37.0	36.9	36.9	38.1
SW	8.2	11.8	.9	.*	.0		20.9	8.3	23.1	18.9	20.1	21.4
W	4.0	4.0	.3	.0	.0		8.2	7.6	8.9	7.2	9.1	7.5
NW	1.1	.9	.*	.0	.0		2.1	7.0	1.6	2.8	2.4	1.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	2.4	4.6	3.6	2.1
TOT OBS	2132	3409	260	5	0	5806	8.5		1518	1350	1624	1314
TOT PCT	36.7	58.7	4.5	.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0011 IVORY COAST
2.8N 6.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.4	6.2	64.7	25.4	1.3	.0	.0	8.6	100.0	1518
06009	4.6	6.1	65.4	23.1	.7	.0	.0	8.2	100.0	1350
12015	3.6	7.2	61.0	27.7	.5	.0	.0	8.5	100.0	1624
18021	2.1	6.1	61.6	29.7	.5	.0	.0	8.9	100.0	1314
TOT	185	374	3665	1538	44	0	0	8.5		5806
PCT	3.2	6.4	63.1	26.5	.8	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.3	.3	.2		5.2
NE	.2	.5	.5	.5		6.3
E	.6	.5	.9	.9		5.2
SE	5.8	8.4	10.3	4.1		4.6
S	5.5	9.3	16.8	8.8		5.3
SW	1.5	2.6	6.8	4.1		5.7
W	.4	.7	2.5	1.7		6.0
NW	.3	.3	.7	.6		5.6
VAR	.0	.0	.0	.0		.0
CALM	.5	1.0	1.6	.6		5.1
TOT OBS	404	642	1109	592	2747	5.2
TOT PCT	14.7	23.4	40.4	21.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	*	.1	.1	.1	.1	*	.0	.0	.0	.5	
.0	.0	.1	.2	.2	.1	.1	*	.0	.1	.4	
.0	.0	.2	.5	.1	.4	.0	.0	.0	.1	1.7	
*	*	.4	1.7	3.8	1.5	.8	.1	*	*	20.3	
.2	*	.5	3.8	6.3	3.4	1.1	.4	.1	.2	24.4	
.1	.0	.3	1.3	2.7	1.8	.5	.1	.0	.1	8.1	
*	*	.3	.6	.9	.6	.2	.0	*	.1	2.5	
.0	*	*	.1	.2	.3	*	*	.1	.0	1.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	*	.3	.5	.3	.1	*	.0	.1	2.3	
11	3	52	231	408	235	77	*	7	17	1685	2747
.4	.1	1.9	8.4	14.9	8.6	2.8	.8	.3	.6	61.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.6	.7	.8	.8	.8	.8	.8	.8
* OR >5000	1.3	1.5	1.5	1.6	1.6	1.6	1.6	1.6
* OR >3500	3.6	4.3	4.4	4.5	4.5	4.5	4.5	4.5
* OR >2000	10.3	12.4	12.9	13.0	13.0	13.0	13.0	13.0
* OR >1000	22.1	26.8	27.8	28.0	28.0	28.0	28.0	28.0
* OR >600	27.5	34.5	36.0	36.4	36.4	36.4	36.4	36.4
* OR >300	28.4	36.1	37.8	38.2	38.2	38.2	38.3	38.3
* OR >150	28.4	36.2	37.9	38.2	38.3	38.3	38.4	38.4
* OR >0	28.5	36.4	38.2	38.6	38.7	38.7	38.8	38.9
TOTAL	815	1040	1092	1105	1107	1108	1111	1112

TOTAL NUMBER OF OBS: 2861

PCT FREQ NM <5/8: 61.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.0	9.3	15.8	17.1	14.5	9.5	9.4	7.2	12.9	.4	2991

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0011 IVORY COAST
2.0N 6.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.1	*	*	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	*	.1	.1	*	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
1<2	PCP	*	*	*	.0	.1	.1	*	*	.0	.0	.3	
	NO PCP	.0	*	.0	*	.0	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	*	*	.1	.1	*	*	.0	.0	.4	
2<5	PCP	.0	*	.1	.1	.4	.1	.1	*	.0	*	1.0	
	NO PCP	.0	*	.0	.1	.4	.2	.1	.0	.0	.0	.8	
	TOT %	.0	.1	.1	.2	.8	.3	.2	*	.0	*	1.8	
5<10	PCP	.1	.2	.3	1.0	1.2	.8	.2	.1	.0	.1	4.1	
	NO PCP	.1	.2	.3	3.1	3.6	2.2	1.2	.5	.0	.2	11.4	
	TOT %	.2	.4	.6	4.1	4.9	3.0	1.5	.6	.0	.3	15.5	
10+	PCP	.0	.1	.2	1.0	1.0	.7	.2	.2	.0	.0	3.5	
	NO PCP	.8	.9	2.0	23.0	32.1	11.5	3.9	1.2	.0	3.2	78.4	
	TOT %	.8	.9	2.2	24.1	33.1	12.2	4.1	1.4	.0	3.2	81.9	
TOT OBS		1.0	1.5	2.9	28.4	39.0	15.7	5.9	2.1	.0	3.5	100.0	3167
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	*	.1	*	*	.0	.0	.0	.2	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	*	.1	*	*	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	*	.0	*	.1	.1	.1	*	*	.0	.0	.3	
	11-21	.0	*	.0	*	.1	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	.1	.2	.1	*	*	.0	.0	.5	
2<5	0-3	.0	*	.0	*	*	*	.0	*	.0	*	.2	
	4-10	*	*	.1	.2	.5	.5	.2	*	.0	*	1.4	
	11-21	*	.0	*	.1	.3	.2	.1	*	.0	.0	.8	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.1	.3	.8	.7	.3	.1	.0	*	2.4	
5<10	0-3	*	.1	.1	.2	.2	.3	*	*	.0	.4	1.4	
	4-10	.1	.2	.3	2.2	2.8	2.3	.9	.4	.0	.0	9.3	
	11-21	*	.1	.1	1.1	2.0	1.1	.6	.1	.0	.0	5.2	
	22+	.0	.0	*	*	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.2	.4	.6	3.6	5.0	3.8	1.5	.6	.0	.4	16.1	
10+	0-3	.1	.1	.3	.9	1.7	1.1	.5	.2	.0	3.2	8.1	
	4-10	.5	.7	1.6	12.7	20.5	10.6	3.6	1.0	.0	.0	51.2	
	11-21	.1	.1	.4	7.6	9.4	2.4	.8	.3	.0	.0	21.1	
	22+	.0	.0	.1	.1	.1	.1	*	.0	.0	.0	.3	
	TOT %	.7	.9	2.3	21.3	31.7	14.2	5.0	1.4	.0	3.2	80.7	
TOT OBS		1.0	1.4	3.0	25.3	37.9	18.9	6.8	2.1	.0	3.7	100.0	4209
TOT PCT													

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0011 IVORY COAST
2.8N 6.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.5	.2	1.7	7.5	13.8	8.3	2.0	.6	.3	.6	35.3	64.7	665
06009	.7	.0	2.3	8.7	17.1	9.2	2.3	1.5	.3	.4	42.3	57.7	750
12015	.1	.3	2.5	6.6	14.5	9.8	3.3	.8	.1	.9	39.0	61.0	785
18021	.4	.0	1.1	10.3	13.1	6.0	3.4	.3	.3	.4	35.3	64.7	731
TOT	12	3	56	242	430	245	81	23	7	17	1116	1815	2931
PCT	.4	.1	1.9	8.3	14.7	8.4	2.8	.8	.2	.6	38.1	61.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.0	.5	3.0	16.3	80.1	1074
06009	.3	.2	.9	2.0	17.0	79.6	1087
12015	.3	.3	.5	2.3	14.5	82.0	1175
18021	.1	.1	.4	2.9	15.7	80.8	1035
TOT	10	7	25	111	693	3525	4371
PCT	.2	.2	.6	2.5	15.9	80.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.6	2.5	11.5	25.0	63.5	641
06009	.7	3.1	13.9	29.9	56.1	732
12015	.1	3.1	11.0	28.6	60.4	772
18021	.4	1.5	12.6	23.3	64.1	716
TOT	13	74	351	767	1743	2861
PCT	.5	2.6	12.3	26.8	60.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
90/94	.0	.0	.0	.0	.1	.1	.0	.0	6	.2
85/89	.0	.0	.0	.1	.9	3.2	.8	.3	137	5.2
80/84	.0	.0	.0	.0	1.6	27.6	37.0	5.5	1881	71.7
75/79	.0	.0	.0	.0	.0	2.5	12.4	7.1	577	22.0
70/74	.0	.0	.0	.0	.0	.1	.2	.5	21	.8
TOTAL	0	0	0	4	70	878	1321	350	2623	100.0
PCT	.0	.0	.0	.2	2.7	33.5	50.4	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.0	.0	.1	1.6	2.2	.7	.3	.0	.0	.3
.4	.6	1.8	20.6	30.1	11.9	3.8	.9	.0	1.7
.3	.6	1.0	7.0	7.9	2.7	1.3	.8	.0	.4
.0	.1	.0	.3	.2	.1	.0	.0	.0	.0
.8	1.2	3.0	29.6	40.5	15.5	5.4	1.7	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	84	83	81	77	74	68	80.4	1530
06009	91	85	83	81	76	73	70	80.3	1381
12015	95	90	87	82	77	74	72	82.1	1621
18021	95	87	85	81	77	73	64	81.1	1325
TOT	95	88	85	81	77	74	64	81.0	5857

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.7	26.1	58.2	15.0	83	674
06009	.0	.0	.7	26.1	55.0	18.1	84	700
12015	.0	.4	6.1	43.3	40.6	9.6	80	719
18021	.0	.2	2.7	38.6	47.4	11.1	81	665
TOT	0	4	72	927	1384	371	82	2758

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0011 IVORY COAST
2.8N 6.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.0	5	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.1	.2	.0	14	.0	.5
6	.0	.0	.0	.0	.0	.0	.1	.1	.0	7	.0	.2
5	.0	.0	.0	.0	.1	.3	.5	.3	.1	39	.0	1.3
4	.0	.0	.0	.0	.2	.4	.6	.1	.0	39	.0	1.3
3	.0	.0	.0	.0	.1	.8	.6	.1	.0	48	.0	1.6
2	.0	.0	.0	.0	.5	2.1	1.0	.0	.0	112	.1	3.6
1	.0	.0	.0	.0	1.4	3.7	1.0	.0	.0	185	.0	6.1
0	.0	.0	.0	.2	3.6	7.9	1.5	.0	.0	398	.1	13.1
-1	.0	.0	.0	.3	4.3	13.8	.7	.0	.0	577	.0	19.0
-2	.0	.0	.0	.1	4.1	13.5	.2	.0	.0	542	.0	17.9
-3	.0	.0	.0	.1	6.1	6.5	.1	.0	.0	388	.0	12.8
-4	.0	.0	.0	.3	5.0	3.6	.1	.0	.0	269	.0	8.9
-5	.0	.0	.0	.2	3.2	2.2	.0	.0	.0	170	.0	5.6
-6	.0	.0	.0	.4	1.9	.6	.0	.0	.0	88	.0	2.9
-7/-8	.0	.0	.0	.9	1.6	.3	.0	.0	.0	87	.0	2.9
-9/-10	.0	.0	.0	.6	.6	.0	.0	.0	.0	36	.0	1.2
-11/-13	.0	.0	.1	.3	.0	.0	.0	.0	.0	11	.0	.4
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	7	104	991	1690	198	24	8	3024	100.0	.3	99.7
PCT	*	*	.2	3.4	32.8	55.9	6.5	.8	.3			

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.3		.1	.3	.0	.0	.0	.0	.4	
1-2	.1	.4	.0	.0	.0	.0	.6		.0	.5	.1	.0	.0	.0	.6	
3-4	.0	.0	.0	.0	.0	.0	.1		.0	.2	.1	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.7	.1	.0	.0	.0	1.0		.1	.9	.3	.0	.0	.0	1.3	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0	.4		.6	2.0	.1	.0	.0	.0	2.6	
1-2	.1	1.3	.1	.0	.0	.0	1.6		.2	8.9	2.8	.0	.0	.0	12.0	
3-4	.0	.3	.3	.0	.0	.0	.7		.0	4.7	4.9	.0	.0	.0	9.6	
5-6	.0	.0	.0	.0	.0	.0	.1		.0	.4	2.4	.1	.0	.0	2.9	
7	.0	.0	.0	.0	.0	.0	.0		.0	.3	.7	.0	.0	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.0	.4	.1	.0	.0	2.7		.8	16.4	11.2	.1	.0	.0	28.5	

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0011 IVORY COAST
2.8M 6.3M

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	3.2	.1	.0	.0	.0	4.0	.8	2.2	*	.0	.0	.0	.0	3.0
1-2	.6	13.9	4.1	.0	.0	.0	18.7	.4	6.1	1.5	.0	.0	.0	.0	8.1
3-4	*	6.2	6.8	.1	.0	.0	13.2	.0	1.5	.7	*	.0	.0	.0	2.3
5-6	.0	1.0	3.3	.1	.0	.0	4.4	.0	.3	.3	*	.0	.0	.0	.6
7	.0	.2	.3	.0	.0	.0	.5	.0	*	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	24.5	14.7	.2	.0	.0	40.8	1.2	10.2	2.6	.1	.0	.0	.0	14.0

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	1.4	*	.0	.0	.0	1.7	.3	.5	.0	.0	.0	.0	.8	96.2
1-2	.1	2.2	.4	.0	.0	.0	2.8	.2	.6	.1	.0	.0	.0	.9	
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.3	.1	.0	.0	.0	.4	
5-6	.0	.0	*	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.0	1.2	.0	.0	.0	5.7	.4	1.6	.3	.0	.0	.0	2.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	9.9	.3	.0	.0	.0	18.0	2128
1-2	2.7	33.6	8.9	.0	.0	.0	45.2	
3-4	.1	13.4	13.2	.2	.0	.0	26.9	
5-6	.0	1.7	6.0	.2	.0	.0	7.8	
7	.0	.5	1.0	.0	.0	.0	1.5	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.7	59.1	29.8	.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	12.0	10.8	6.9	2.0	.5	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	926	3
6-7	*	2.0	8.8	8.7	4.1	1.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	667	5
8-9	.0	.6	2.4	3.1	2.4	1.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	257	5
10-11	.0	1.1	2.1	1.5	1.1	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	5
12-13	.0	.0	2.6	.6	.2	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	4
>13	.0	.0	.0	.2	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
INDEX	4.2	5.8	5.4	2.9	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	513	3
TOTAL	185	566	867	631	282	79	27	7	8	3	0	0	0	0	0	0	0	0	0	2635	4
PCT	7.0	21.5	32.1	23.9	10.7	3.0	1.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

JUNE

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.4	7.4	.0	.0	.0	.0	.0	14.8	13.0	.0	.0	.0	.0	.0	72.2
NE	20.0	10.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	1.7	.0	.0	68.3
E	4.7	6.8	1.7	.0	.0	.0	.0	19.2	5.1	3.0	.0	1.3	.0	.0	79.1
SE	2.5	1.9	.5	.0	.0	.0	.0	4.8	2.8	1.3	.7	.0	1.3	.0	89.6
S	3.1	1.9	.7	.0	.0	.0	.1	5.8	5.0	1.3	.2	.0	.4	.0	87.4
SW	8.2	4.8	.6	.0	.0	.0	.2	13.8	4.9	3.1	.5	.0	.0	.0	78.5
W	16.7	6.5	2.2	.0	.0	.0	.0	25.3	9.9	.8	.0	.0	1.6	.0	62.4
NW	17.3	.0	.0	.0	.0	.0	.0	17.3	1.0	4.1	.0	4.1	2.0	.0	75.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7	.0	.0	.0	.0	.0	.0	5.7	5.7	2.9	.0	.0	.0	.0	85.7
TOT PCT	4.4	2.6	.7	.0	.0	.0	.1	7.7	4.5	1.6	.4	.1	.6	.0	85.6
TOT OBS:	2999														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.5	2.6	.8	.0	.0	.0	.0	8.0	5.1	3.0	.5	.1	.8	.0	83.0
06009	4.0	3.0	.4	.0	.0	.0	.1	7.6	5.5	1.8	.3	.1	.5	.0	84.9
12015	4.7	2.9	1.0	.0	.0	.0	.0	8.4	4.0	.9	.6	.0	1.1	.0	85.3
18021	5.1	1.7	.5	.0	.0	.0	.1	7.5	3.8	1.1	.4	.0	.1	.0	87.4
TOT PCT	4.6	2.6	.7	.0	.0	.0	.1	7.9	4.6	1.7	.5	.1	.7	.0	85.2
TOT OBS:	3072														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	.1	.3	.1	.0	.0	.0	.5	6.6	.4	.4	.1	.7	.9	.0	.4	.8	
NE	.2	.3	.1	.0	.0	.0	.6	6.7	.3	.4	.5	1.7	.9	.1	.4	.5	
E	.3	1.1	.4	.0	.0	.0	1.8	7.7	2.0	1.7	2.2	2.1	2.3	1.0	1.1	.8	
SE	.6	13.9	9.3	.2	.0	.0	24.0	10.1	24.6	15.7	26.8	18.2	28.0	17.1	28.1	20.2	
S	1.9	24.6	19.3	.8	.0	.0	46.6	10.3	46.0	44.1	49.4	45.4	44.8	46.6	50.7	44.8	
SW	.6	12.5	5.8	.2	.0	.0	19.1	9.5	19.9	24.7	15.3	20.3	16.0	28.3	14.1	26.2	
W	.3	3.5	1.2	.0	.0	.0	5.0	8.4	4.4	10.0	2.9	8.7	4.2	5.3	3.7	5.4	
NW	.2	.8	.1	.0	.0	.0	1.1	6.6	.6	1.3	1.3	2.1	1.4	.7	.8	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3						1.3	.0	1.9	1.8	1.6	.8	1.6	.8	.7	.6	
TOT OBS	285	3001	1913	68	0	0	5267	9.8	996	383	753	486	1080	362	744	463	
TOT PCT	5.4	57.0	36.3	1.3	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	06	12	18	21
N	.3	.1	.0	.0	.0	.5	6.6	.4	.3	.7	.5	
NE	.3	.3	.0	.0	.0	.6	6.7	.3	.9	.7	.5	
E	.8	.9	.0	.0	.0	1.8	7.7	1.9	2.2	2.0	1.0	
SE	5.3	16.7	1.9	.1	.0	24.0	10.1	22.1	23.4	25.3	25.1	
S	10.1	32.3	4.1	.2	.0	46.6	10.3	45.4	47.8	45.2	48.4	
SW	5.0	12.6	1.4	.1	.0	19.1	9.5	21.2	17.3	19.1	18.7	
W	2.0	2.8	.2	.0	.0	5.0	8.4	5.9	5.2	4.5	4.4	
NW	.6	.4	.0	.0	.0	1.1	6.6	.8	1.6	1.2	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3					1.3	.0	1.9	1.3	1.4	.7	
TOT OBS	1364	3480	408	15	0	5267	9.8	1379	1239	1442	1207	
TOT PCT	25.9	66.1	7.7	.3	.0	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	1.9	4.5	58.7	33.6	1.3	.0	.0	.0	9.5	100.0	1379
0600	1.3	4.7	57.9	34.7	1.4	.0	.0	.0	9.6	100.0	1239
1200	1.4	3.6	55.6	38.1	1.3	.0	.0	.0	10.0	100.0	1442
1800	.7	3.6	55.6	39.0	1.2	.0	.0	.0	10.0	100.0	1207
TOT	70	215	3001	1913	68	0	0	0	9.8		5267
PCT	1.3	4.1	57.0	36.3	1.3	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.3	.2		6.9
NE	.1	.0	.1	.3		5.7
E	.6	.4	.5	.4		4.3
SE	9.4	6.9	9.4	4.1		4.1
S	6.4	8.9	20.3	14.3		5.5
SW	1.2	1.5	5.4	4.6		6.1
W	.2	.1	1.0	1.7		6.8
NW	.0	.1	.3	.3		6.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.4	.4		5.1
TOT OBS	447	442	934	647	2470	5.2
TOT PCT	18.1	17.9	37.8	26.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	
NE	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
E	.0	.0	.0	.1	.2	.4	.1	.1	.0	.0	1.1	
SE	.1	.1	1.6	3.5	2.8	.7	.3	.2	.3	20.2		
S	.4	.6	4.3	10.3	7.3	1.5	.7	.1	.4	24.4		
SW	.0	.2	1.2	3.0	1.8	.6	.2	.0	.3	5.4		
W	.0	.0	.2	.4	.9	.3	.1	.0	.0	1.1		
NW	.0	.0	.0	.1	.2	.2	.0	.0	.0	.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.2	.2	.1	.0	.0	.0	.5		
TOT OBS	12	4	30	191	454	325	77	30	9	24	1314	2470
TOT PCT	.5	.2	1.2	7.7	18.4	13.2	3.1	1.2	.4	1.0	53.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	4.1	5.5	5.5	5.5	5.6	5.6	5.6	5.6
= OR >2000	14.4	18.1	18.6	18.6	18.7	18.7	18.7	18.7
= OR >1000	28.6	35.4	36.8	36.9	37.0	37.0	37.0	37.0
= OR >600	33.4	42.7	44.5	44.7	44.7	44.7	44.7	44.7
= OR >300	33.9	44.0	45.8	46.1	46.1	46.1	46.1	46.1
= OR >150	34.0	44.1	46.0	46.2	46.3	46.3	46.3	46.3
= OR >0	34.0	44.4	46.3	46.6	46.7	46.7	46.8	46.8
TOTAL	853	1114	1163	1170	1172	1172	1174	1174

TOTAL NUMBER OF OBS: 2511

PCT FREQ NH <5/8: 53.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.2	8.7	11.9	12.3	13.0	9.2	10.8	8.6	18.1	.3	2670

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
1<2	PCP	.0	.0	.0	*	.1	*	.1	.0	.0	.0	.3	
	NO PCP	*	.0	.0	.1	.1	.0	*	*	.0	.0	.2	
	TOT %	*	.0	.0	.1	.2	*	.1	*	.0	.0	.4	
2<5	PCP	.0	*	.1	.2	.5	.2	*	.1	.0	*	1.1	
	NO PCP	.0	.0	*	.2	.5	.1	.1	*	.0	*	1.1	
	TOT %	.0	*	.1	.4	1.0	.4	.1	.1	.0	.1	2.2	
5<10	PCP	.0	.1	.1	.7	1.2	1.2	.4	.1	.0	*	3.7	
	NO PCP	.1	.1	.4	4.3	7.5	3.2	.7	.2	.0	.2	16.8	
	TOT %	.1	.2	.5	5.0	8.7	4.4	1.1	.3	.0	.2	20.5	
10+	PCP	.1	*	.1	.5	1.0	.6	*	*	.0	.0	2.5	
	NO PCP	.3	.3	1.3	23.3	37.4	9.0	1.5	.4	.0	.8	74.3	
	TOT %	.3	.3	1.4	23.8	38.4	9.6	1.8	.4	.0	.8	76.8	
TOT OBS													2995
TOT PCT		.5	.5	2.0	29.3	48.4	14.4	3.1	.8	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
	11-21	*	*	.0	.0	*	.0	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	*	*	.0	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.1	.1	.1	*	*	.0	.0	.4	
	11-21	.0	.0	.0	*	.1	*	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.1	.2	.2	.1	*	.0	.0	.7	
2<5	0-3	*	.0	.0	.0	*	*	.0	*	.0	.1	.2	
	4-10	.0	*	*	.2	.5	.4	.1	.1	.0	.0	1.3	
	11-21	.0	*	.1	.1	.6	.3	.1	*	.0	.0	1.1	
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	TOT %	*	*	.1	.3	1.2	.7	.1	.1	.0	.1	2.7	
5<10	0-3	*	*	.1	.1	.2	.2	*	.0	.0	.3	1.0	
	4-10	.1	.1	.2	2.5	3.9	3.1	.9	.3	.0	.0	11.0	
	11-21	*	*	.1	1.5	4.0	1.7	.4	*	.0	.0	7.8	
	22+	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.4	4.1	8.3	4.9	1.3	.3	.0	.3	20.0	
10+	0-3	*	.1	.1	.4	1.2	.3	.3	.1	.0	.8	3.3	
	4-10	.2	.2	.8	11.9	20.7	7.9	2.1	.4	.0	.0	44.1	
	11-21	*	.1	.3	8.5	15.5	3.4	.6	.1	.0	.0	28.5	
	22+	.0	.0	.0	.2	.2	*	*	.0	.0	.0	.4	
	TOT %	.3	.3	1.2	21.0	37.7	11.6	3.0	.5	.0	.8	76.3	
TOT OBS													4014
TOT PCT		.5	.6	1.7	25.6	47.5	17.4	4.6	1.0	.0	1.2	100.0	

JUNE

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975AREA 0011 IVORY COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.7	.3	1.2	9.1	14.9	9.5	2.7	1.4	.5	1.0	41.4	58.6	582
06009	.5	.2	1.4	7.4	20.4	16.7	3.7	1.1	.3	1.7	53.3	46.7	647
12015	.1	.0	.6	6.7	18.1	13.1	2.7	1.6	.4	.6	44.0	56.0	700
18021	.6	.3	2.2	7.1	17.1	11.6	3.0	.6	.1	.6	43.2	56.8	673
TOT	12	5	35	196	461	333	79	30	9	25	1185	1417	2602
PCT	.5	.2	1.3	7.5	17.7	12.8	3.0	1.2	.3	1.0	45.5	54.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.1	.4	3.1	21.5	74.6	1019
06009	.1	.1	.8	2.5	22.1	74.4	991
12015	.0	.2	1.0	2.8	19.7	76.3	1099
18021	.2	.2	.6	2.6	17.4	79.0	980
TOT	6	6	29	113	825	3110	4089
PCT	.1	.1	.7	2.8	20.2	76.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.7	2.4	13.3	30.2	56.5	550
06009	.5	2.1	11.4	42.7	45.9	632
12015	.1	.7	9.7	36.1	54.1	678
18021	.5	3.2	12.3	32.1	55.6	651
TOT	11	52	291	890	1330	2511
PCT	.4	2.1	11.6	35.4	53.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.0	.1	.0	.0	3	.1
85/89	.0	.0	.0	*	.2	.8	.1	.1	31	1.3
80/84	.0	.0	.0	.5	1.1	18.9	16.0	2.5	958	39.0
75/79	.0	.0	.0	.0	.3	13.7	25.2	9.2	1188	48.4
70/74	.0	.0	.0	.0	.1	.3	5.3	5.5	276	11.2
65/69	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	0	0	14	44	831	1143	425	2457	100.0
PCT	.0	.0	.0	.6	1.8	33.8	46.5	17.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.1	.1	.0	.3	.5	.2	*	.0	.0	.0
.1	.0	.6	8.9	20.5	7.4	1.1	.2	.0	.2
.1	.2	.8	15.6	23.3	6.2	1.6	.3	.0	.2
.1	.1	.6	5.8	3.8	.4	.2	.1	.0	.1
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.4	.4	2.0	30.8	48.2	14.2	2.9	.6	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	82	81	78	73	71	68	78.0	1387
06009	85	83	82	78	72	70	65	77.8	1244
12015	94	86	84	80	74	72	70	79.4	1443
18021	92	84	82	79	74	72	70	78.7	1208
TOT	94	85	82	79	73	71	66	78.5	5282

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	.5	27.3	50.6	21.2	84	609
06009	.0	.3	1.1	27.0	48.4	23.2	84	622
12015	.0	.6	4.4	41.7	39.8	13.5	81	653
18021	.0	.8	1.0	37.0	47.8	13.5	82	630
TOT	0	14	45	839	1170	446	83	2514

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1835-1975

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AREA 0011 IVORY COAST
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.0	*	*	3	.0	.1
9/10	.0	.0	.0	*	*	.0	.1	.0	4	.0	.1
7/8	.0	.0	.0	*	.1	*	.1	.0	7	.0	.3
6	.0	.0	.0	.2	.1	.1	.0	.0	12	.0	.4
5	.0	.0	.1	.2	.3	.3	*	.0	26	.0	.9
4	.0	*	.3	.5	.4	.1	.0	.0	39	.0	1.4
3	.0	.0	.5	.9	.4	.3	.0	.0	57	.0	2.1
2	.0	.1	1.4	1.3	1.5	.3	.0	.0	126	*	4.6
1	.0	.4	1.5	2.7	2.0	.2	.0	.0	187	*	6.8
0	.0	1.1	2.8	5.8	4.4	.1	.0	.0	388	.1	14.1
-1	.0	.6	2.7	10.0	5.8	.1	.0	.0	527	.0	19.2
-2	.0	.5	1.8	11.4	4.4	*	.0	.0	496	.1	18.0
-3	.0	.3	1.6	9.6	1.7	.0	.0	.0	364	.1	13.2
-4	.0	.1	1.5	5.5	1.1	.0	.0	.0	223	.0	8.1
-5	.0	.1	1.4	3.6	.5	.0	.0	.0	156	*	5.7
-6	.0	.1	.8	.8	*	.0	.0	.0	49	.0	1.8
-7/-8	.0	.0	.8	.9	*	.0	.0	.0	47	.0	1.7
-9/-10	.0	.1	.5	.1	.0	.0	.0	.0	19	.0	.7
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	5	.0	.2
-14/-16	*	.0	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	94	492	1470	628	45	7	1	2738	12	2726
PCT	*	3.4	18.0	53.7	22.9	1.6	.3	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.2
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.2	*	.0	.0	.0	.3
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.1	.0	.0	.0	.6	*	.4	*	.0	.0	.0	.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.4	.0	.0	.0	.0	.5	.1	1.7	.3	.0	.0	.0	2.0
1-2	*	.6	.3	.0	.0	.0	.9	.2	8.0	3.8	.0	.0	.0	12.0
3-4	.0	.1	.3	.0	.0	.0	.4	*	4.2	5.6	.0	.0	.0	9.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.3	.1	.0	.0	4.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.1	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	.6	.0	.0	.0	1.8	.3	14.6	13.9	.2	.0	.0	28.9

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	2.3	.1	.0	.0	.0		3.1	.2	2.0	.0	.0	.0	.0		2.2
1-2	.4	14.9	7.7	.0	.0	.0		23.0	.1	4.1	1.9	.0	.0	.0		6.1
3-4	.1	6.7	9.6	.0	.0	.0		16.5	.1	1.7	1.2	.0	.0	.0		2.9
5-6	.0	.9	4.8	.1	.0	.0		5.8	.0	.2	.6	.0	.0	.0		.8
7	.0	.1	1.0	.1	.0	.0		1.3	.0	.1	.3	*	.0	.0		.4
8-9	.0	.0	.3	*	.0	.0		.4	.0	.0	.1	*	.0	.0		.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.1	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	25.1	23.8	.3	.0	.0		50.3	.3	8.1	4.0	*	.0	.0		12.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.4	.1	.0	.0	.0		.6	.1	.2	.0	.0	.0	.0		.3	
1-2	.0	1.3	.1	.0	.0	.0		1.4	.0	.4	*	.0	.0	.0		.4	
3-4	.1	.5	.3	.0	.0	.0		.9	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.1	.1	.0	.0	.0		.2	.0	.1	.0	.0	.0	.0		.1	
7	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.2	.8	.0	.0	.0		3.3	.1	.7	*	.0	.0	.0		.8	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	7.5	.4	.0	.0	.0	11.0	
1-2	.9	29.8	13.7	.0	.0	.0	44.4	
3-4	.2	13.1	16.9	.0	.0	.0	30.2	
5-6	.0	2.0	8.8	.2	.0	.0	11.0	
7	.0	.2	2.2	.2	.0	.0	2.6	
8-9	.0	.0	.4	.1	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.1	.1	.1	.0	.0	.2	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	52.5	42.7	.5	.0	.0	100.0	1887

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.3	10.2	11.5	6.3	2.5	.3	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	778	3
6-7	.0	1.7	7.9	8.5	5.3	1.3	.4	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	598	5
8-9	.0	.4	1.7	5.9	2.1	.8	.4	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269	5
10-11	.0	1.1	.9	.7	1.2	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106	5
12-13	.0	.0	1.3	.6	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
>13	.0	.0	.0	.3	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
INDET	2.4	6.0	6.1	3.4	2.7	.3	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	495	3
TOTAL	110	455	687	599	347	85	28	10	13	4	0	0	0	0	0	0	0	0	0	0	2338	4
PCT	4.7	19.5	29.4	25.6	14.6	3.6	1.2	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1867-1975

JULY

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	24.0	.0	.0	.0	.0	.0	24.0	.0	.0	.0	.0	.0	.0	76.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	2.3	1.7	.0	.0	.0	.0	4.0	2.3	.0	5.7	.0	4.0	.0	84.0
SE	.7	.1	.0	.0	.0	.0	.0	.8	1.0	.0	1.8	.1	.8	.5	94.4
S	.9	1.1	.3	.0	.0	.0	.0	2.3	2.4	.4	.6	.0	.2	.0	94.0
SW	3.0	3.8	.9	.0	.0	.0	.0	7.8	4.3	.1	.0	.0	.1	.0	87.7
W	8.5	8.5	3.4	.0	.0	.0	.0	20.4	2.6	.0	1.7	.0	.0	.0	75.3
NW	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	1.5	.0	.0	.0	.0	.0	3.0	4.5	.0	9.0	.0	3.0	.0	80.6
TOT PCT	1.3	1.5	.4	.0	.0	.0	.0	3.2	2.4	.4	1.1	*	.5	.1	92.3
TOT OBS:	3063														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.8	1.6	.4	.0	.0	.0	.0	2.7	2.3	.9	1.0	.0	.3	.0	92.7
06009	1.9	2.5	.2	.0	.0	.0	.0	4.6	3.2	.4	1.9	.0	.5	.0	89.5
12015	1.6	.9	.3	.0	.0	.0	.0	2.9	2.2	.0	.9	.0	.6	.5	92.9
18021	.6	1.1	.7	.0	.0	.0	.0	2.4	1.8	.3	.4	.1	.6	.0	94.4
TOT PCT	1.2	1.5	.4	.0	.0	.0	.0	3.2	2.4	.4	1.1	*	.5	.1	92.4
TOT OBS:	3154														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	*	.1	.0	.0	.0	.0		.2	6.6		.1	.3	.3	.3	.2	.0	.2	.0
NE	.1	.2	*	.0	.0	.0		.3	6.3		.3	.5	.2	.4	.3	.6	.2	.3
E	.4	.9	.2	.0	.0	.0		1.4	6.1		1.5	.9	1.5	2.1	1.3	1.2	1.3	1.1
SE	1.3	13.2	5.1	.1	.0	.0		19.7	8.8		20.6	12.2	22.6	17.4	21.3	15.1	25.3	12.1
S	2.2	28.0	17.8	.6	.0	.0		48.6	9.9		47.6	43.5	50.7	46.6	49.1	43.1	53.7	48.9
SW	.8	15.0	8.2	.3	.0	.0		24.3	9.8		24.0	36.3	19.9	27.7	22.1	31.5	17.1	29.6
W	.2	2.4	.8	.1	.0	.0		3.5	8.5		3.3	5.4	1.5	4.3	3.8	6.7	1.2	5.1
NW	*	.2	*	.0	.0	.0		.3	7.6		.3	.4	.4	.5	.3	.4	*	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		2.4	.5	3.1	.7	1.6	1.5	1.1	2.6
TOT OBS	374	3284	1756	54	0	0	5468		9.3		1051	382	812	458	1150	411	737	467
TOT PCT	6.8	60.1	32.1	1.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.1	.1	.0	.0	.0	.0		.2	6.6	.1	.3	.1	.1
NE	.2	.1	*	.0	.0	.0		.3	6.3	.4	.5	.4	.2
E	.9	.5	*	.0	.0	.0		1.4	6.1	1.4	1.7	1.3	1.2
SE	6.5	12.3	.8	*	.0	.0		19.7	8.8	18.3	20.7	19.7	20.2
S	11.4	33.4	3.7	.1	.0	.0		48.6	9.9	46.5	49.2	47.5	51.9
SW	5.6	17.0	1.6	*	.0	.0		24.3	9.8	27.3	22.7	24.6	21.9
W	1.3	2.0	.2	*	.0	.0		3.5	8.5	3.9	2.5	4.6	2.7
NW	.1	.2	.0	.0	.0	.0		.3	7.6	.3	.4	.3	.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	1.9	2.2	1.5	1.7
TOT OBS	1525	3590	348	5	0	5468		9.3		1433	1270	1561	1204
TOT PCT	27.9	65.7	6.4	.1	.0		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1975
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.9	4.7	61.4	31.2	.8	.0	.0	.0	9.3	100.0	1433
06009	2.2	5.4	58.9	32.6	.9	.0	.0	.0	9.3	100.0	1270
12015	1.5	4.9	60.0	32.7	.9	.0	.0	.0	9.4	100.0	1561
18021	1.7	5.1	59.8	32.0	1.4	.0	.0	.0	9.3	100.0	1204
TOT	.99	275	3284	1756	54	0	0	0	9.3		5468
PCT	1.8	5.0	60.1	32.1	1.0	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.2		6.6
NE	.2	.1	.0	.0		1.8
E	.8	.1	.3	.1		2.7
SE	11.7	4.8	5.6	3.1		3.3
S	10.9	11.1	19.7	14.9		5.1
SW	1.7	2.5	4.6	4.6		5.6
W	.3	.1	.1	.5		5.4
NW	.0	.0	.0	.1		6.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.4	.4		3.4
TOT OBS	672	478	777	606	2533	4.6
TOT PCT	26.5	18.9	30.7	23.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
E	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	1.0
SE	.1	.1	.2	1.0	1.9	1.9	.7	.1	.2	.2	18.8	
S	.0	.0	.0	3.4	11.0	7.6	2.1	.4	.4	.4	30.1	
SW	.0	.0	.2	1.2	2.8	1.9	.7	.2	.1	.1	6.2	
W	.0	.0	.0	.1	.2	.1	.0	.1	.0	.0	.5	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	1.2	
TOT OBS	3	4	36	153	412	299	94	21	17	20	1474	2533
TOT PCT	.1	.2	1.4	6.0	16.3	11.8	3.7	.8	.7	.8	58.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	5.1	5.8	5.9	5.9	5.9	5.9	5.9	5.9
>2000	13.9	17.1	17.5	17.5	17.5	17.5	17.5	17.5
>1000	27.1	32.7	33.4	33.5	33.5	33.5	33.5	33.5
>600	32.1	38.6	39.3	39.5	39.5	39.5	39.5	39.5
>300	33.0	39.8	40.7	40.8	40.8	40.8	40.9	40.9
>150	33.1	39.9	40.8	41.0	41.0	41.0	41.0	41.0
>0	33.1	39.9	40.8	41.0	41.0	41.1	41.1	41.1
TOTAL	862	1039	1064	1069	1069	1070	1072	1072

TOTAL NUMBER OF OBS: 2606

PCT FREQ NH <5/8: 58.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.0	9.4	12.4	12.2	10.0	7.4	9.1	7.8	17.7	.1	2735

PERIOD: (PRIMARY) 1925-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	*	.1	.1	.0	.0	.0	.0	.1	.3	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	*	*	.1	.0	*	.0	.0	.0	.2	
	TOT %	.0	.0	*	*	.1	.0	*	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.2	
2<5	PCP	.0	.0	*	*	.3	.1	*	.0	.0	*	.5	
	NO PCP	.0	.0	.0	.4	.3	.1	.0	.0	.0	.1	.9	
	TOT %	.0	.0	*	.4	.6	.2	*	.0	.0	.2	1.4	
5<10	PCP	*	.0	.0	.1	.6	.7	.3	*	.0	*	1.7	
	NO PCP	.1	*	.2	2.9	7.1	3.2	.8	.0	.0	.8	15.1	
	TOT %	.1	*	.2	3.0	7.6	3.9	1.0	*	.0	.8	16.8	
10+	PCP	.0	.0	*	.1	.4	.2	.1	*	.0	.0	.8	
	NO PCP	.1	.2	1.1	20.8	45.8	10.3	.7	.1	.0	1.1	80.2	
	TOT %	.1	.2	1.1	20.9	46.2	10.6	.8	.1	.0	1.1	81.1	
TOT OBS													3062
TOT PCT		.2	.3	1.4	24.5	54.7	14.8	1.9	.1	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	*	*	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	*	.2	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.1	*	*	.0	.0	.0	.3	
1<2	0-3	.0	.0	*	*	*	*	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.1	.2	.1	*	.0	.0	*	.5	
2<5	0-3	.0	.0	*	*	*	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.3	.2	.1	*	.0	.0	.8	
	11-21	.0	.0	.0	.1	.3	.3	*	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.4	.6	.5	.1	*	.0	.2	1.8	
5<10	0-3	*	.0	*	.3	.7	.2	.1	*	.0	.7	2.1	
	4-10	.1	*	.1	1.7	3.4	2.3	.6	*	.0	.0	8.3	
	11-21	.0	.0	*	.6	3.3	2.1	.2	.0	.0	.0	6.1	
	22+	.0	.0	.0	*	.2	.1	.0	.0	.0	.0	.4	
	TOT %	.1	*	.2	2.7	7.6	4.7	.9	*	.0	.7	16.8	
10+	0-3	.0	*	.3	.9	1.7	.5	*	*	.0	1.0	4.6	
	4-10	*	.1	.5	12.3	25.3	9.6	.8	*	.0	.0	48.7	
	11-21	.0	.1	.2	5.0	16.4	4.6	.3	*	.0	.0	26.6	
	22+	.0	.0	.0	*	.3	.1	*	.0	.0	.0	.5	
	TOT %	*	.2	1.0	18.3	43.9	14.8	1.1	.1	.0	1.0	80.4	
TOT OBS													4116
TOT PCT		.2	.2	1.2	21.5	52.6	20.1	2.2	.1	.0	2.0	100.0	

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PERIOD: (PRIMARY) 1925-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.3	1.2	6.0	14.1	11.7	3.7	.3	.3	.9	38.6	61.4	588
06009	.1	.0	1.5	7.4	20.1	12.5	3.1	.9	.7	1.0	47.4	52.6	673
12015	.3	.1	1.6	5.6	13.9	10.9	4.2	1.2	.8	.5	38.9	61.1	771
18021	.0	.2	1.1	4.3	14.8	10.5	3.2	.8	.6	1.0	36.5	63.5	628
TOT	3	4	36	155	418	303	95	22	17	22	1075	1585	2660
PCT	.1	.2	1.4	5.8	15.7	11.4	3.6	.8	.6	.8	40.4	59.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.3	.2	1.8	18.1	79.2	1047
06009	.5	.3	.7	2.2	17.9	78.4	1033
12015	.2	.3	.4	1.6	14.8	82.6	1170
18021	.1	.2	.5	1.5	16.7	81.0	958
TOT	12	12	19	75	708	3382	4208
PCT	.3	.3	.5	1.8	16.8	80.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.1	9.2	31.0	59.8	574
06009	.2	2.0	11.5	37.9	50.6	660
12015	.3	2.0	8.6	31.7	59.7	754
18021	.0	1.3	7.3	30.1	62.6	618
TOT	3	48	239	853	1514	2606
PCT	.1	1.8	9.2	32.7	58.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	.0	.0	.0	.0	.0	1	*
85/89	.0	.0	.0	.0	*	.1	.0	.0	3	.1
80/84	.0	.0	.0	.2	2.1	6.3	2.4	.4	288	11.2
75/79	.0	.0	.0	*	1.8	26.3	27.1	5.6	1562	60.8
70/74	.0	.0	.0	.0	.3	2.8	11.7	10.7	655	25.5
65/69	.0	.0	.0	.0	.0	.0	.5	1.8	60	2.3
TOTAL	0	0	1	5	108	909	1070	476	2569	100.0
PCT	.0	.0	*	.2	4.2	35.4	41.7	18.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.0	.0	*	.1	.0	.0	.0	.0	.0
.0	*	*	2.1	7.6	1.3	.1	.0	.0	.1
.1	.1	.4	10.1	37.7	10.9	1.3	.1	.0	.1
*	.1	.7	11.6	9.8	1.5	.5	.0	.0	1.1
.0	.0	.2	1.1	.5	.0	.0	.0	.0	.5
.1	.3	1.5	25.0	55.6	13.7	1.9	.1	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	81	79	76	70	68	66	75.6	1447
06009	86	82	80	76	70	68	64	75.6	1283
12015	93	85	82	78	73	70	64	77.8	1573
18021	93	82	81	77	71	69	67	76.6	1210
TOT	93	83	81	77	71	68	64	76.4	5513

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.5	28.5	41.6	28.3	84	637
06009	.0	.3	2.7	29.4	45.3	22.3	83	669
12015	.0	.1	7.9	43.3	38.2	10.5	80	723
18021	.0	.3	4.0	37.3	43.1	15.3	81	601
TOT	0	6	109	921	1111	503	82	2650

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1867-1975

JULY

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 17

PCT FREQ OF AIR TEMPERATUR (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	.0	*	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	*	.1	.0	3	.0	.1
9/10	.0	.0	.0	.0	.1	*	.0	.0	.0	4	.0	.1
7/8	.0	.0	.0	.0	.1	.1	.2	*	.0	12	.0	.4
6	.0	.0	.0	*	.2	.2	.1	*	.0	14	.0	.5
5	.0	.0	.1	.4	.3	.3	.0	.0	.0	32	.0	1.1
4	.0	.0	*	.4	.6	.3	*	.0	.0	41	.0	1.4
3	.0	.0	.4	1.0	1.8	.6	*	.0	.0	81	.1	2.7
2	.0	.1	1.0	1.8	1.8	.8	.0	.0	.0	158	.2	5.3
1	.0	*	2.4	2.8	3.7	1.2	.0	.0	.0	295	*	10.2
0	.0	.4	4.1	3.9	5.5	1.2	.0	.0	.0	436	.2	14.8
-1	.0	.1	1.7	3.2	9.5	.5	.0	.0	.0	437	.1	15.0
-2	.0	.1	1.1	4.1	10.8	1.0	.0	.0	.0	492	.1	16.9
-3	.0	.0	.8	4.4	6.8	.1	.0	.0	.0	352	*	12.1
-4	*	.1	.9	3.0	4.4	.3	.0	.0	.0	256	.1	8.7
-5	.1	.0	.5	2.1	2.8	.1	.0	.0	.0	163	.1	5.5
-6	.0	.1	.3	.7	.5	.0	.0	.0	.0	46	.1	1.5
-7/-8	.0	.0	.3	.7	.3	.0	.0	.0	.0	37	.0	1.3
-9/-10	.0	*	.2	.2	.1	.0	.0	.0	.0	18	*	.6
-11/-13	.0	.0	*	.2	.0	.0	.0	.0	.0	8	.0	.3
-14/-16	*	*	*	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	4		405		1401		11		1	2891	33	2858
PCT	.1	1.0	14.0	29.1	48.5	6.8	.4	.1	*	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1	*	.2	*	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.0	.0	.0	.2	*	.2	.1	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3	.7	1.8	.1	.0	.0	.0	2.6
1-2	.3	.3	.1	.0	.0	.0	.7	.3	8.5	1.7	.0	.0	.0	10.6
3-4	.0	*	.1	.0	.0	.0	.1	.1	4.4	3.0	.1	.0	.0	7.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	*	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.5	.2	.0	.0	.0	1.2	1.1	15.3	6.9	.1	.0	.0	23.5

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0011 IVORY COAST

TABLE 18 (CONT)

2.8N 6.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	3.4	.4	.0	.0	.0		4.6	.3	.8	.1	.0	.0	.0		1.2
1-2	.9	17.3	4.8	.0	.0	.0		23.0	.2	4.4	1.1	.0	.0	.0		5.6
3-6	.1	7.9	11.2	.2	.0	.0		19.4	.1	2.2	2.6	.1	.0	.0		4.9
5-6	.0	1.6	6.2	.3	.0	.0		8.1	.0	.4	1.3	.1	.0	.0		1.8
7	.0	.1	1.4	.2	.0	.0		1.7	.0	.1	.2	.1	.0	.0		.3
8-9	.0	.1	.4	.0	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.1	.0	.0		.1	.0	.0	.1	.0	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.8	30.3	24.5	.8	.0	.0		57.4	.5	7.8	5.3	.3	.0	.0		13.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.3	.0	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
3-6	.0	.1	.1	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	.8	.2	.0	.0	.0		1.1	.0	.0	.1	.0	.0	.0		.1	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	6.5	.6	.0	.0	.0	12.6	
1-2	2.1	30.7	7.7	.0	.0	.0	40.5	
3-6	.2	14.5	16.6	.4	.0	.0	31.7	
5-6	.0	2.4	9.0	.4	.0	.0	11.8	
7	.0	.2	2.1	.3	.0	.0	2.5	
8-9	.0	.1	.5	.1	.0	.0	.6	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	54.4	36.6	1.2	.0	.0	100.0	1979

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	10.8	12.5	4.8	1.5	.5	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	760	3
6-7	.0	2.0	8.3	10.4	3.7	1.5	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	649	5
8-9	.0	.6	2.9	4.3	2.3	.4	.9	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	287	6
10-11	.0	1.5	1.3	.9	1.3	.4	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	5
12-13	.0	.0	1.3	1.0	.3	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	5
>13	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
INDET	2.2	5.3	7.0	3.6	1.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	492	3
TOTAL	80	488	801	610	258	99	52	8	14	4	0	0	0	0	0	0	0	0	0	2414	4
PCT	3.3	20.2	33.2	25.3	10.7	4.1	2.2	.3	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.3	.3	.5	.0	.0	.0	.0	1.1	.7	.2	.7	.0	1.6	.0	95.6
S	.8	.9	1.5	.0	.0	.0	.0	3.1	2.6	.2	.3	.0	.3	.0	93.5
SW	3.1	1.8	1.7	.0	.0	.0	.0	6.5	4.3	.2	.8	.0	.2	.0	88.0
W	3.3	1.3	2.7	.0	.0	.0	.0	7.3	2.2	1.8	.9	.0	1.8	.0	86.1
NW	8.9	.0	7.1	.0	.0	.0	.0	16.1	8.9	.0	.0	.0	.0	.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.9	1.4	.0	.0	.0	.0	4.3	1.4	.0	4.3	.0	5.8	.0	84.1
TOT PCT	1.3	1.0	1.4	.0	.0	.0	.0	3.6	2.5	.2	.6	.0	.7	.0	92.3
TOT OBS:	3113														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	.9	1.5	.0	.0	.0	.0	3.6	3.0	.5	.6	.0	.9	.0	91.4
06009	2.0	1.3	2.0	.0	.0	.0	.0	5.1	2.8	.3	.9	.0	.6	.1	90.2
12015	1.2	1.1	.6	.0	.0	.0	.0	2.9	2.6	.0	.9	.0	.7	.0	92.9
18021	.6	.8	1.4	.0	.0	.0	.0	2.8	2.1	.1	.3	.0	.6	.0	94.1
TOT PCT	1.3	1.0	1.4	.0	.0	.0	.0	3.6	2.6	.2	.7	.0	.7	*	92.2
TOT OBS:	3179														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.2	.1	.0	.0	.0		.3	6.7	.2	.9	.1	.1	.5	.1	.5	.4	
NE	.1	.1	*	.0	.0	.0		.2	5.5	.3	.2	.2	.1	.2	.0	.2	.1	
E	.1	.7	.1	.0	.0	.0		.9	7.2	.5	.6	1.6	.6	1.3	.4	1.3	.6	
SE	.9	10.2	3.3	.1	.0	.0		14.5	8.6	14.9	9.7	18.2	13.5	15.8	8.4	16.7	10.3	
S	2.1	27.9	15.9	.6	.0	.0		46.5	9.8	47.3	36.9	49.4	42.5	46.4	42.4	54.2	42.9	
SW	1.9	17.4	9.3	.5	.0	.0		29.1	9.5	28.9	39.3	23.7	34.1	27.0	37.0	22.0	35.3	
W	.8	4.1	1.2	*	.0	.0		6.1	7.5	5.6	10.0	3.6	6.6	6.3	9.3	3.5	8.9	
NW	.1	.4	.1	.0	.0	.0		.5	6.8	.5	.6	.7	.4	.5	.7	.3	.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9							1.9	.0	1.8	1.7	2.5	2.1	2.0	1.6	1.5	1.2	
TOT OBS	442	3386	1667	66	0	0		5561	9.2	1085	407	797	478	1125	374	814	481	
TOT PCT	7.9	60.9	30.0	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.2	.1	*	.0	.0	.3	6.7	.4	.1	.4	.4		
NE	.1	*	*	.0	.0	.2	5.5	.3	.1	.1	.1		
E	.5	.4	*	.0	.0	.9	7.2	.5	1.2	1.1	1.0		
SE	5.1	8.8	.6	*	.0	14.5	8.6	13.5	16.5	14.0	14.3		
S	10.5	32.7	3.3	.1	.0	46.5	9.8	44.5	46.8	45.4	50.0		
SW	8.3	18.6	2.1	.1	.0	29.1	9.5	31.8	27.6	29.5	26.9		
W	3.0	2.9	.2	.0	.0	6.1	7.5	6.8	4.7	7.0	5.5		
NW	.3	.2	*	.0	.0	.5	6.8	.5	.6	.6	.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.9					1.9	.0	1.8	2.4	1.9	1.4		
TOT OBS	1697	3545	348	11	0	5561	9.2	1492	1275	1499	1295		
TOT PCT	29.8	63.7	6.3	.2	.0		100.0	100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.8	7.2	58.6	31.2	1.2	.0	.0	.0	9.2	100.0	1492
00009	2.4	6.7	62.9	26.7	1.4	.0	.0	.0	8.9	100.0	1275
12015	1.9	5.3	61.8	29.7	1.3	.0	.0	.0	9.2	100.0	1499
18021	1.4	5.1	60.5	32.1	.8	.0	.0	.0	9.3	100.0	1295
TOT	104	338	2386	1667	66	0	0	0	9.2		5561
PCT	1.9	6.1	60.9	30.0	1.2	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.1	.2	.1	*		4.3
NE	*	.0	.1	*		5.3
E	.5	.3	.3	.3		4.1
SE	7.5	3.3	4.2	3.3		3.8
S	11.7	8.2	16.8	18.1		5.3
SW	2.3	2.5	6.9	7.8		6.0
W	.4	.2	.9	1.0		5.9
NW	.1	.1	.1	.2		5.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.5	.7		3.9
TOT OBS	611	393	778	818	2600	5.1
TOT PCT	23.5	15.1	29.9	31.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
NE	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
E	.0	.0	.0	*	.1	.1	.1	.1	*	.1	.8	
SE	.1	.0	.1	.7	2.4	1.4	.6	.2	.1	.2	12.6	
S	.1	.2	.7	5.0	10.2	7.3	2.6	.7	.3	.8	27.1	
SW	*	.1	.2	2.4	4.0	3.9	.9	.3	.2	.3	7.0	
W	*	*	*	.3	.3	.3	.3	*	.1	.2	1.1	
NW	.0	.0	*	*	*	.1	.1	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	.4	.3	.1	.0	.0	*	1.6	
TOT OBS	6	7	29	221	458	351	119	35	18	41	1315	2600
TOT PCT	.2	.3	1.1	8.5	17.6	13.5	4.6	1.3	.7	1.6	50.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >5000	3.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8
= OR >3500	6.9	8.2	8.3	8.3	8.3	8.3	8.3	8.3
= OR >2000	17.4	20.9	21.6	21.6	21.6	21.6	21.6	21.6
= OR >1000	31.1	38.2	39.2	39.3	39.3	39.3	39.3	39.3
= OR >600	37.9	46.3	47.7	47.8	47.8	47.8	47.8	47.8
= OR >300	38.6	47.3	48.8	48.9	48.9	48.9	48.9	48.9
= OR >150	38.8	47.5	49.0	49.1	49.2	49.2	49.2	49.2
= OR >0	38.8	47.6	49.2	49.3	49.4	49.4	49.4	49.4
TOTAL	1024	1256	1299	1302	1303	1303	1303	1303

TOTAL NUMBER OF OBS: 2640

PCT FREQ NH <5/8: 50.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	11.4	9.0	11.2	9.5	9.0	6.8	8.4	10.4	24.1	.2	2805

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
	TOT %	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
1/2<1	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	*	.4	.3	.1	*	.0	.0	.8	
	NO PCP	.0	*	*	.2	.5	.3	*	*	.0	.0	1.1	
	TOT %	.0	*	*	.2	.9	.6	.1	.1	.0	.0	2.0	
5<10	PCP	.0	.0	.0	.1	.5	.7	.1	*	.0	.1	1.4	
	NO PCP	.1	*	.2	3.2	6.9	4.2	1.0	.1	.0	.6	16.4	
	TOT %	.1	*	.2	3.2	7.4	4.9	1.1	.1	.0	.7	17.8	
10+	PCP	.0	.0	.0	.1	.7	.3	.1	*	.0	.0	1.2	
	NO PCP	.2	.1	1.1	14.6	44.3	14.4	2.2	.3	.0	1.4	78.6	
	TOT %	.2	.1	1.1	14.6	45.0	14.7	2.3	.3	.0	1.4	79.7	
TOT OBS													3111
TOT PCT		.4	.1	1.3	18.2	53.5	20.2	3.6	.5	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	*	*	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	*	*	*	.0	*	.0	*	.2	
	4-10	*	*	*	.1	.5	.6	.1	*	.0	.0	1.4	
	11-21	.0	.0	.0	.1	.3	.3	*	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	*	*	*	.2	.9	.9	.2	*	.0	*	2.4	
5<10	0-3	*	*	.0	.1	.7	.5	.2	*	.0	.6	2.2	
	4-10	*	*	.1	2.0	4.4	3.6	.8	.1	.0	.0	11.0	
	11-21	.0	.0	.0	.5	2.3	2.0	.4	*	.0	.0	5.2	
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.1	*	.2	2.7	7.5	6.1	1.4	.1	.0	.6	18.7	
10+	0-3	*	*	.1	.5	1.7	1.3	.4	.0	.0	1.3	5.4	
	4-10	.1	.1	.7	9.3	25.2	11.0	2.0	.2	.0	.0	48.7	
	11-21	.1	*	.1	3.4	14.7	5.1	.5	*	.0	.0	24.0	
	22+	.0	.0	.0	*	.3	*	.0	.0	.0	.0	.4	
	TOT %	.2	.1	.9	13.3	42.0	17.4	3.0	.2	.0	1.3	78.4	
TOT OBS													4041
TOT PCT		.3	.1	1.1	16.3	50.6	24.6	4.6	.4	.0	2.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.2	1.3	7.7	14.7	12.3	4.0	1.1	.8	1.3	43.9	56.1	627
06009	.2	.2	1.4	10.0	21.9	14.6	5.6	1.7	.6	2.1	58.1	41.9	659
12015	.1	.4	.7	7.9	17.0	11.6	4.2	1.3	.8	1.8	45.8	54.2	718
18021	.0	.3	1.1	7.4	15.5	13.9	3.9	1.3	.4	1.4	45.2	54.8	714
TOT PCT	6 .2	7 .3	30 1.1	224 8.2	469 17.3	355 13.1	120 4.4	36 1.3	18 .7	45 1.7	1310 48.2	1408 51.8	2718 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.3	.2	2.1	21.7	75.7	1039
06009	.2	.2	.4	2.4	22.9	73.9	996
12015	.1	.0	.3	2.6	16.2	80.8	1075
18021	.0	.1	.0	2.5	14.8	82.6	995
TOT PCT	3 .1	6 .1	9 .2	99 2.4	774 18.9	3214 78.3	4105 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	2.1	10.7	34.7	54.5	605
06009	.2	1.7	13.3	46.0	40.7	646
12015	.0	1.2	11.3	36.1	52.6	692
18021	.0	1.4	10.3	36.2	53.5	697
TOT PCT	5 .2	42 1.6	301 11.4	1009 38.2	1330 50.4	2640 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.1	.1	*	.0	6	.2
80/84	.0	.0	.0	.1	.3	2.2	.7	.2	92	3.4
75/79	.0	.0	.0	.0	.8	19.9	29.8	9.1	1601	59.7
70/74	.0	.0	.0	.0	.1	3.7	17.7	14.1	955	35.6
65/69	.0	.0	.0	.0	.0	.0	.2	.9	29	1.1
TOTAL	0	0	0	2	35	695	1301	650	2683	100.0
PCT	.0	.0	.0	.1	1.3	25.9	48.5	24.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.1	.1	*	.0	.0	.0	.0
80/84	*	*	.0	.7	1.9	.6	.2	*	.0	*
75/79	.0	.1	.4	5.9	35.2	15.6	2.1	.1	.0	.4
70/74	.1	*	.9	11.4	17.1	3.7	.8	.3	.0	1.3
65/69	.0	.0	.1	.6	.3	.0	.0	.0	.0	.1
TOTAL	.1	.1	1.3	18.6	54.5	19.9	3.1	.4	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	79	78	75	70	69	64	74.5	1495
06009	85	80	78	75	70	69	66	74.6	1280
12015	92	84	81	77	73	71	66	76.8	1496
18021	89	81	79	76	72	70	66	75.6	1298
TOT	92	82	80	76	71	69	64	75.4	5569

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.6	16.8	51.0	31.6	86	677
06009	.0	.1	.9	18.4	47.5	33.1	86	691
12015	.0	.1	2.8	38.1	44.1	14.9	82	690
18021	.0	.0	1.0	29.3	49.6	20.1	83	683
TOT	0	2	36	704	1316	683	84	2741

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1856-1975

AUGUST

TABLE 17

AREA 0011 IVORY COAST
2.8N 6.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.1	.0	.0	3	.0	.1
9/10	.0	.0	.0	.0	.1	.1	.0	.0	6	.0	.2
7/8	.0	.0	.0	.3	.6	.3	.0	.0	37	.0	1.3
6	.0	.0	.0	.2	.3	.2	.0	.0	23	.0	.8
5	.0	.0	.0	.7	.5	.1	.0	.0	40	.0	1.4
4	.0	.0	.1	1.0	1.4	.4	.1	.0	84	.1	2.8
3	.0	.0	.2	1.7	1.5	.3	.0	.0	111	.1	3.7
2	.0	.0	.4	4.3	2.7	.4	.0	.0	228	.0	7.8
1	.0	.0	2.3	7.5	4.0	.2	.0	.0	407	.1	13.9
0	.0	.0	3.9	8.2	4.8	.2	.0	.0	498	.1	17.0
-1	.0	.0	2.6	7.5	7.3	.1	.0	.0	510	.1	17.4
-2	.0	.1	1.6	7.8	5.0	.1	.0	.0	426	.1	14.5
-3	.0	.0	1.0	5.3	2.2	.0	.0	.0	251	.0	8.6
-4	.0	.0	.4	3.3	.7	.0	.0	.0	131	.0	4.5
-5	.0	.0	.5	2.4	.3	.0	.0	.0	94	.0	3.2
-6	.0	.0	.2	.6	.1	.0	.0	.0	27	.0	.9
-7/-8	.0	.0	.4	.6	.0	.0	.0	.0	31	.0	1.1
-9/-10	.0	.0	.2	.1	.0	.0	.0	.0	7	.0	.2
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	9	404	1501	919	77	2	2920	19	2901	
PCT	.0	.3	13.8	51.4	31.5	2.6	.2	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.1	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.0	.1	.0	.0	.0	.0	.1	.4	1.1	1.1	.0	.0	.0	1.6
3-4	.0	.2	.0	.0	.0	.0	.2	.1	7.0	1.4	.0	.0	.0	8.4
5-6	.0	.0	.0	.0	.0	.0	.0	.1	2.9	2.1	.0	.0	.0	5.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.7	.7	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.0	.2	.0	.0	.0	1.3	.6	11.8	4.5	.1	.0	.0	16.9

PERIOD: (OVER-ALL) 1963-1975

AUGUST

TABLE 18 (CONT)

AREA 0011 IVORY COAST
2.8N 6.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.6	3.4	.8	.0	.0	.0	4.1		.6	1.8	.1	.0	.0	.0	.0	2.5
1-2	.9	19.1	4.2	.0	.0	.0	24.2		.3	5.9	1.8	.0	.0	.0	.0	7.9
3-4	.1	9.3	12.2	.2	.0	.0	21.7		.0	2.2	2.5	.2	.0	.0	.0	4.8
5-6	.1	1.2	5.4	.1	.0	.0	6.8		.0	.3	1.1	.0	.0	.0	.0	1.5
7	.0	.5	1.1	.2	.0	.0	1.8		.0	.1	.4	.1	.0	.0	.0	.5
8-9	.0	.1	.1	.1	.0	.0	.2		.0	.1	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	33.6	23.1	.5	.0	.0	58.8		.8	10.4	5.8	.2	.0	.0	.0	17.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.2	.3	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.3	.6	.1	.0	.0	.0	1.1		.1	.1	.0	.0	.0	.0	.0	.2	
3-4	.0	.1	.3	.0	.0	.0	.4		.0	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.2	.1	.0	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.1	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	1.3	.5	.0	.0	.0	2.3		.1	.1	.1	.0	.0	.0	.0	.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	6.8	.3	.0	.0	.0	12.4	
1-2	1.7	33.3	7.6	.0	.0	.0	42.6	
3-4	.2	14.7	16.8	.4	.0	.0	32.1	
5-6	.1	2.4	7.3	.1	.0	.0	9.8	
7	.0	.7	1.8	.3	.0	.0	2.7	
8-9	.0	.3	.1	.1	.0	.0	.4	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	58.0	33.9	.8	.0	.0	100.0	1990

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	12.3	14.5	6.4	2.1	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	928	3
6-7	.0	1.1	7.9	7.9	5.2	1.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	604	5
8-9	.0	.5	1.8	2.9	3.4	1.2	.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	270	6
10-11	.0	.0	2.3	.9	.8	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	5
12-13	.0	.0	1.2	.6	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	4
>13	.0	.0	.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
INDET	2.2	4.2	6.0	4.0	1.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	445	3
TOTAL	92	451	823	560	328	108	52	19	9	0	0	0	0	0	0	0	0	0	0	2442	4
PCT	3.8	18.5	33.7	22.9	13.4	4.4	2.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1856-1975

SEPTEMBER

AREA 0011 IVORY COAST
2.6N 6.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.8	1.7	.8	.0	.0	.0	.0	3.3	.8	.0	.5	.0	.6	.0	94.8
S	1.0	1.3	.9	.0	.0	.0	.0	3.1	2.6	.2	.4	.1	.1	.0	93.6
SW	3.8	2.3	2.2	.0	.0	.0	.0	8.0	4.9	.3	1.3	.0	.7	.0	84.8
W	3.3	2.2	.5	.0	.0	.0	.0	6.0	5.8	1.6	7.7	.0	1.6	.0	77.2
NW	12.5	.0	.0	.0	.0	.0	.0	12.5	10.0	.0	.0	.0	10.0	.0	67.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.1	.0	.0	.0	.0	3.1	1.6	.0	1.6	.0	.0	.0	93.8
TOT PCT	1.8	1.6	1.2	.0	.0	.0	.0	4.5	3.0	.2	.9	*	.4	.0	90.9
TOT OBS:	2858														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG MEA
0003	2.3	2.3	1.9	.0	.0	.0	.0	6.2	3.9	.4	.9	.0	.3	.0	88.3
0609	1.7	1.4	.7	.0	.0	.0	.0	3.8	3.7	.1	1.3	.1	.7	.0	90.3
1205	1.5	1.3	1.2	.0	.0	.0	.0	3.8	2.7	.0	.5	.0	.3	.0	92.7
1802	1.8	1.4	1.3	.0	.0	.0	.0	4.3	1.8	.4	.7	.0	.6	.0	92.2
TOT PCT	1.8	1.6	1.2	.0	.0	.0	.0	4.5	3.0	.2	.8	*	.4	.0	90.9
TOT OBS:	2942														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	*	*	*	.0	.0	.0		.1	6.2		*	.1	.0	.0	.1	.1	.0	.3
NE	*	.2	.0	.0	.0	.0		.2	5.1		.1	.4	.1	.4	.5	.1	.0	.0
E	.2	.3	.1	.0	.0	.0		.6	5.8		.3	.6	.3	1.2	.7	1.2	.2	1.1
SE	1.0	7.5	2.8	.1	*	.0		11.4	8.7		11.9	7.7	12.5	8.8	12.6	11.1	13.1	9.0
S	2.5	29.0	15.0	.6	.0	.0		47.1	9.4		48.1	36.4	52.3	42.0	47.4	42.2	54.7	42.6
SW	1.9	21.2	7.6	.4	.0	.0		31.1	8.7		30.3	39.0	28.3	34.4	29.3	34.3	26.4	35.7
W	.9	4.8	.6	*	.0	.0		6.3	7.1		5.6	11.1	3.0	9.2	6.1	8.6	3.8	8.4
NW	.1	.3	.1	.0	.0	.0		.5	7.3		.4	.4	.6	.6	.6	.0	.5	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0		3.1	4.2	2.9	3.5	2.8	2.3	1.2	2.7
TOT OBS	508	3443	1425	59	1	0	5436		8.7		1034	402	807	508	1089	386	729	481
TOT PCT	9.3	63.3	26.2	1.1	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.1	*	.0	.0	.0	.0	.1	6.2	.1	.0	.1	.1	
NE	.2	*	.0	.0	.0	.0	.2	5.1	.2	.2	.4	.0	
E	.4	.2	*	.0	.0	.0	.6	5.8	.4	.6	.8	.6	
SE	4.0	6.8	.6	*	.0	.0	11.4	8.7	10.7	11.1	12.2	11.5	
S	13.3	30.7	3.1	*	.0	.0	47.1	9.4	44.9	48.3	46.0	49.9	
SW	10.7	18.8	1.5	*	.0	.0	31.1	8.7	32.7	30.6	30.6	30.1	
W	3.2	3.0	.1	*	.0	.0	6.3	7.1	7.2	5.4	6.7	5.6	
NW	.3	.2	*	.0	.0	.0	.5	7.3	.4	.6	.4	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.8						2.8	.0	3.4	3.1	2.7	1.8	
TOT OBS	1890	3249	293	4	0	5436		8.7	1436	1315	1475	1210	
TOT PCT	34.8	59.8	5.4	.1	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	3.4	6.6	63.2	25.6	1.2	.0	.0	8.7	100.0	1436
06009	3.1	7.1	64.7	24.0	1.0	.1	.0	8.4	100.0	1315
12015	2.7	7.5	63.2	25.5	1.2	.0	.0	8.5	100.0	1475
18021	1.8	4.8	62.2	30.2	1.0	.0	.0	9.1	100.0	1210
TOT	152	356	3443	1425	59	1	0	8.7		5436
PCT	2.8	6.5	63.3	26.2	1.1	*	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	*	.0	.0	.1		6.0
E	.2	.1	.1	*		4.0
SE	3.3	2.5	4.2	3.6		4.9
S	10.3	8.7	19.7	16.7		5.4
SW	3.3	3.4	9.4	8.7		5.8
W	.4	.4	.9	1.0		5.8
NW	*	.1	.1	.1		5.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.5	.4	.7		4.4
TOT OBS	433	370	823	731	2357	5.4
TOT PCT	18.4	15.7	34.9	31.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	*	.0	*	*	.0	.0	.0	.0	.0	*
.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	.3
*	*	.2	.8	2.8	1.5	.7	.1	.1	.1	.1	7.2
.1	.3	.8	5.1	11.9	6.7	3.0	1.0	.2	.5	.5	25.8
.1	.1	.7	2.2	5.2	4.3	1.4	.5	.1	.3	.3	10.1
.0	*	.0	.1	.9	.5	.1	*	*	.0	.0	1.1
*	*	.0	*	*	*	.0	.0	.0	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
*	.0	.0	.2	.2	.4	.1	.0	.0	.1	.1	1.5
9	10	41	199	496	320	124	37	11	23	1087	2357
.4	.4	1.7	8.4	21.0	13.6	5.3	1.6	.5	1.0	46.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >3500	7.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
= OR >2000	18.4	21.2	21.6	21.6	21.6	21.6	21.6	21.6
= OR >1000	36.2	41.9	42.6	42.7	42.8	42.8	42.8	42.8
= OR >600	42.3	49.7	50.8	51.0	51.1	51.1	51.1	51.1
= OR >300	43.4	51.3	52.5	52.7	52.8	52.8	52.8	52.8
= OR >150	43.5	51.7	52.9	53.1	53.2	53.2	53.2	53.2
= OR >0	43.7	52.0	53.2	53.4	53.6	53.6	53.6	53.6
TOTAL	1057	1258	1288	1293	1297	1297	1298	1298

TOTAL NUMBER OF OBS: 2421

PCT FREQ NH <5/8: 46.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.8	8.5	9.7	10.8	10.3	7.0	11.1	12.6	23.0	.2	2559

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.4
	TOT %	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.5
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
2<5	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.1	.3	.4	.1	.0	.0	.0	.0	1.0
	TOT %	.0	.0	.0	.1	.5	.6	.2	.0	.0	.0	.0	1.5
5<10	PCP	.0	.0	.0	.3	.7	.8	.1	.0	.0	.0	.0	1.9
	NO PCP	.0	.0	.3	2.3	7.8	4.0	.7	.1	.0	.5	.5	15.7
	TOT %	.0	.0	.3	2.5	8.5	4.9	.8	.1	.0	.5	.5	17.7
10+	PCP	.0	.0	.0	.1	.7	.9	.0	.0	.0	.1	.1	1.8
	NO PCP	.0	.1	.3	10.9	45.0	18.3	1.9	.2	.0	1.6	78.3	
	TOT %	.0	.1	.3	11.0	45.7	19.2	1.9	.2	.0	1.7	80.1	
TOT OBS													2855
TOT PCT		.0	.1	.6	13.7	54.9	24.8	3.2	.4	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.1	.6	.6	.2	.1	.0	.0	1.7	
	11-21	.0	.0	.0	.0	.2	.3	.1	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.9	1.0	.3	.1	.0	.1	2.6	
5<10	0-3	.0	.0	.1	.3	.6	.4	.0	.0	.0	.7	2.2	
	4-10	.0	.0	.1	1.2	5.0	3.7	.9	.1	.0	.1	11.1	
	11-21	.0	.0	.0	.8	2.7	1.7	.1	.0	.0	.0	5.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.3	2.3	8.4	5.8	1.1	.1	.0	.7	18.7	
10+	0-3	.0	.0	.0	.6	1.9	1.4	.2	.0	.0	2.0	6.1	
	4-10	.0	.1	.2	7.0	25.9	14.6	1.8	.2	.0	.0	49.8	
	11-21	.0	.0	.1	2.4	13.4	4.9	.4	.0	.0	.0	21.2	
	22+	.0	.0	.0	.1	.5	.2	.0	.0	.0	.0	.8	
	TOT %	.0	.1	.3	10.0	41.7	21.1	2.4	.2	.0	2.0	77.8	
TOT OBS													3926
TOT PCT		.0	.2	.6	12.5	51.1	28.2	4.1	.4	.0	2.9	100.0	

PERIOD: (PRIMARY) 1924-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.0	1.3	7.2	18.5	12.1	4.5	1.1	.4	.6	46.5	53.5	529
06009	.5	.5	2.4	9.4	27.1	17.8	5.2	1.8	.5	.9	66.0	34.0	658
12015	.1	.7	1.2	8.3	17.8	12.0	5.5	1.5	.4	1.3	49.0	51.0	674
18021	.2	.3	1.8	7.8	18.7	10.5	5.0	1.6	.5	.8	47.2	52.8	619
TOT	9	10	42	204	512	327	126	38	11	23	1302	1178	2480
PCT	.4	.4	1.7	8.2	20.6	13.2	5.1	1.5	.4	.9	52.5	47.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.3	.3	2.8	20.9	75.4	992
06009	.2	.4	.1	3.1	20.7	75.5	1003
12015	.0	.5	.2	2.3	16.9	80.1	1067
18021	.2	.1	.6	2.2	15.7	81.1	948
TOT	7	13	12	105	744	3129	4010
PCT	.2	.3	.3	2.6	18.6	78.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	2.2	10.5	38.3	51.3	507
06009	.5	3.6	14.2	52.9	32.9	647
12015	.2	2.4	12.0	37.8	50.2	664
18021	.2	2.3	10.6	37.8	51.6	603
TOT	9	64	289	1015	1117	2421
PCT	.4	2.6	11.9	41.9	46.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.0	*	.0	.0	2	.1
85/89	.0	.0	.0	.0	*	1.1	.0	*	5	.2
80/84	.0	.0	.0	*	.4	3.1	1.6	.2	132	5.4
75/79	.0	.0	.0	.1	.9	15.1	37.7	12.1	1616	66.0
70/74	.0	.0	.0	.0	.1	2.8	14.7	10.6	690	28.2
65/69	.0	.0	.0	.0	.0	.0	*	.2	5	.2
TOTAL	0	0	0	4	36	520	1324	566	2450	100.0
PCT	.0	.0	.0	.2	1.5	21.2	54.0	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.0	.0	.0	.0	.2	.1	.0	.0	.0	.0
.0	.0	.1	.7	2.6	1.6	.2	.0	.0	.1
.0	.1	.4	6.2	37.3	18.9	2.1	.1	.0	.9
.0	*	.3	7.0	15.1	4.2	.7	.1	.0	.8
.0	.0	.0	.1	.1	*	.0	*	.0	.0
.0	.1	.7	14.0	55.3	24.8	3.0	.2	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	79	78	75	71	70	65	74.9	1438
06009	90	80	78	75	72	70	66	75.1	1322
12015	88	84	82	77	73	72	68	77.4	1487
18021	91	82	80	76	73	71	66	76.1	1215
TOT	93	82	80	76	72	70	65	75.9	5462

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	.5	10.2	59.7	29.4	86	608
06009	.0	.0	.6	13.6	52.8	33.0	86	654
12015	.0	.3	3.6	35.9	48.0	12.2	82	663
18021	.0	.2	1.5	23.9	54.6	19.9	84	599
TOT	0	4	40	532	1353	595	84	2524

SEPTEMBER

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1856-1975

AREA 0011 IVORY COAST
2.6N 6.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.1	.0		2	*	*
11/13	.0	.0	.0	.0	.2	.2	.0	8	.0	.3
9/10	.0	.0	.0	.1	.1	.1	.0	6	.0	.2
7/8	.0	.0	.1	.2	.3	.1	.0	18	.2	.5
6	.0	.0	.1	.3	.2	.0	*	18	.0	.7
5	.0	.1	.5	.9	.5	*	.0	54	.0	2.0
4	.0	.0	.6	1.5	.6	*	.0	72	.1	2.6
3	.0	*	1.2	2.1	.5	.0	.0	101	.1	3.7
2	.0	.3	3.0	3.9	.5	.0	.0	205	.1	7.6
1	.0	.8	5.8	5.4	.2	.0	.0	322	.3	11.9
0	.0	1.7	10.2	7.2	.7	.0	.0	523	.1	19.6
-1	*	1.8	10.4	6.7	.1	.0	.0	506	.0	19.1
-2	.0	1.0	7.2	6.0	.2	.0	.0	382	*	14.4
-3	.0	.6	5.0	1.7	.0	.0	.0	194	.0	7.3
-4	.0	.5	2.9	1.4	.2	.0	.0	132	.0	5.0
-5	*	.3	1.7	.4	*	.0	.0	65	.0	2.5
-6	*	.2	.6	.2	.0	.0	.0	25	.0	.9
-7/-8	*	.1	.3	.1	.0	.0	.0	15	.0	.6
-9/-10	.0	*	*	.0	.0	.0	.0	2	.0	.1
TOTAL	4	194	1315	1113	12	1		2650	24	2626
PCT	.2	7.3	49.6	38.2	4.3	.5	*	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.3	*	.0	.0	.0	.5
1-2	.0	.2	.0	.0	.0	.0	.2	.3	5.6	.7	.0	.0	.0	6.5
3-4	.0	.1	*	.0	.0	.0	.1	.1	1.6	1.4	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	*	.8	.1	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	*	.0	.0	.0	.3	.6	7.6	3.2	.1	.0	.0	11.5

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0011 IVORY COAST
2.6N 6.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.1	.2	.0	.0	.0	4.3	1.0	2.9	.3	.0	.0	.0	4.2
1-2	1.1	19.1	5.1	.0	.0	.0	25.4	.9	10.0	1.6	.0	.0	.0	12.6
3-4	.1	8.5	8.3	.2	.0	.0	17.1	.1	3.0	2.4	.1	.0	.0	5.5
5-6	.1	1.9	5.8	.5	.0	.0	8.2	.0	.7	2.5	.1	.0	.0	3.3
7	.0	.1	1.1	.4	.0	.0	1.6	.0	.1	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.1	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	32.7	20.8	1.1	.0	.0	56.8	2.0	16.7	7.0	.3	.0	.0	26.0

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.2	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1	97.4
1-2	.1	1.1	.3	.0	.0	.0	1.5	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.1	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.6	.5	.1	.0	.0	2.4	.0	.2	.0	.0	.0	.0	.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.2	6.8	.5	.0	.0	.0	13.5	1835
1-2	3.0	35.4	7.5	.0	.0	.0	45.9	
3-4	.2	13.0	12.0	.3	.0	.0	25.4	
5-6	.1	2.7	9.0	.7	.0	.0	12.4	
7	.0	.3	1.3	.5	.0	.0	2.1	
8-9	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.2	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	58.3	30.7	1.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	13.9	12.4	7.3	2.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	864	3
6-7	.0	1.9	7.9	7.5	4.1	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	513	5
8-9	.0	.6	3.5	3.9	2.4	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	238	5
10-11	.0	1.6	.8	1.1	.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
12-13	.0	.0	1.7	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	4
>13	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
INDET	2.6	3.9	5.3	3.2	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	387	3
TOTAL	103	488	708	559	275	79	22	3	4	0	0	0	0	0	0	0	0	0	0	2241	4
PCT	4.6	21.8	31.6	24.9	12.3	3.5	1.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

OCTOBER

AREA 0011 IVORY COAST
2.7N 6.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	12.1	9.1	.0	.0	.0	.0	.0	21.2	.0	.0	.0	.0	.0	.0	78.8
NE	10.6	2.1	.0	.0	.0	.0	.0	12.8	.0	.0	.0	.0	.0	.0	87.2
E	8.9	.0	.0	.0	.0	.0	.0	8.9	7.7	.0	.0	.0	.0	.0	88.4
SE	1.5	3.6	.5	.0	.0	.0	.0	5.6	2.3	.2	.1	.0	.1	.0	91.7
S	1.4	2.7	.8	.0	.0	.0	.0	4.7	3.8	.6	.1	.0	.1	.0	90.7
SW	2.1	2.6	.6	.0	.0	.0	.0	5.3	3.7	2.0	.1	.0	.0	.0	89.1
W	4.6	2.7	.0	.0	.0	.0	.0	7.3	3.2	5.4	4.3	.0	.0	.0	79.8
NW	.0	.0	7.4	.0	.0	.0	.0	7.4	.0	3.7	11.1	.0	.0	.0	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.9	.0	.0	.0	.0	2.9	8.8	1.5	2.9	2.9	.0	.0	80.9
TOT PCT	1.8	2.7	.8	.0	.0	.0	.0	5.1	3.6	1.0	.3	.1	.1	.0	89.8
TOT OBS:	2920														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	1.9	2.7	1.1	.0	.0	.0	.0	5.5	4.1	2.3	.3	.0	.1	.0	87.8
06009	1.9	2.9	.9	.0	.0	.0	.0	5.8	4.4	.7	1.1	.3	.0	.0	88.0
12015	2.2	2.8	.4	.0	.0	.0	.0	5.2	4.3	.1	.0	.0	.0	.0	90.5
18021	1.4	2.5	.6	.0	.0	.0	.0	4.4	1.8	1.1	.0	.0	.3	.0	92.4
TOT PCT	1.8	2.7	.7	.0	.0	.0	.0	5.2	3.7	1.0	.3	.1	.1	.0	89.6
TOT OBS:	2984														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.1	.0	.0	.0	.0		.3	3.9		.2	.4	.4	.4	.3	.0	.1	.3
NE	.1	.2	*	.0	.0	.0		.4	4.8		.3	.5	.3	.6	.7	.1	.1	.0
E	.1	.6	.2	.0	.0	.0		.9	7.2		1.0	1.3	.8	.7	1.4	.4	.4	
SE	.9	7.9	3.3	*	.0	.0		12.0	8.8		13.0	8.0	13.2	10.4	13.0	8.1	15.0	9.8
S	2.1	32.5	14.0	.1	.0	.0		48.6	9.1		48.6	38.1	54.9	41.7	48.8	46.1	55.2	46.0
SW	1.8	20.7	5.2	.2	.0	.0		27.9	8.4		27.2	36.4	23.7	30.3	24.9	35.6	24.4	33.6
W	.7	5.5	.8	*	.0	.0		7.0	7.3		6.6	12.3	3.0	11.3	7.3	8.0	3.6	9.0
NW	.1	.6	.1	*	.0	.0		.7	6.2		.5	1.0	.7	1.5	1.1	.5	.1	.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		2.8	2.2	2.9	3.1	2.6	1.0	1.1	.4
TOT OBS	451	3776	1301	20	0	0	5548		8.5		1080	418	799	490	1138	382	747	494
TOT PCT	8.1	68.1	23.4	.4	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	.2	*	.0	.0	.0			.3	3.9		.2	.4	.2	.2	
NE	.3	.1	.0	.0	.0			.4	4.8		.4	.4	.5	.1	
E	.4	.4	.0	.0	.0			.9	7.2		1.1	.8	1.1	.4	
SE	3.8	7.9	.3	*	.0			12.0	8.8		11.6	12.1	11.8	12.9	
S	13.4	33.4	1.8	.0	.0			48.6	9.1		45.7	49.9	48.1	51.5	
SW	9.8	17.0	1.1	.0	.0			27.9	8.4		29.7	26.2	27.6	28.0	
W	3.3	3.6	.1	.0	.0			7.0	7.3		8.2	6.2	7.5	5.8	
NW	.5	.2	*	.0	.0			.7	6.2		.6	1.0	1.0	.3	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.2							2.2	.0		2.6	2.9	2.2	.8	
TOT OBS	1880	3478	189	1	0	5548			8.5		1498	1289	1520	1241	
TOT PCT	33.9	62.7	3.4	*	.0			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	2.6	5.6	68.2	23.0	.5	.0	.0	8.5	1498
0600	2.9	6.2	68.7	21.8	.4	.0	.0	8.3	1289
1200	2.2	7.4	66.6	23.6	.2	.0	.0	8.3	1520
1800	.8	4.3	69.1	25.5	.3	.0	.0	8.8	1241
TOT	121	330	3776	1301	20	0	0	8.5	5548
PCT	2.2	5.9	68.1	23.4	.4	.0	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.1	.2	7.3	
NE	.1	.1	.1	.2	5.8	
E	.1	.1	.5	.2	6.0	
SE	2.9	2.9	5.3	2.8	4.9	
S	9.4	13.0	23.3	12.8	5.2	
SW	2.9	5.7	7.8	4.6	5.2	
W	.3	.5	.9	.5	5.1	
NW	.0	.1	.1	.1	5.6	
VAR	.0	.0	.0	.0	.0	
CALM	.6	.6	.8	.3	4.3	
TOT OBS	398	565	954	536	2453	
TOT PCT	16.2	23.0	38.9	21.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.2
.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.4
.0	.1	.1	1.0	2.7	1.5	.6	.2	.0	.2	.2	7.5
.1	.6	5.3	12.0	6.3	2.1	.7	.2	.5	30.7		
.0	.1	.2	1.8	3.2	2.7	.9	.1	.0	.3	11.8	
.0	.0	.0	.1	.4	.3	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	.1	.4	.1	.0	.0	.0	.1	.5
.2	.4	2.5	20.9	46.2	28.3	9.4	2.3	.7	2.5	131.9	245.3
.1	.2	1.0	8.5	18.8	11.5	3.8	.9	.3	1.0	53.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	5.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1
>2000	14.7	17.5	17.7	17.7	17.7	17.7	17.7	17.7
>1000	30.5	36.0	36.4	36.5	36.5	36.5	36.5	36.5
>600	37.7	44.4	44.9	45.0	45.0	45.0	45.1	45.1
>300	38.3	45.3	46.0	46.1	46.1	46.1	46.1	46.1
>150	38.3	45.4	46.1	46.2	46.2	46.2	46.3	46.3
>0	38.3	45.5	46.2	46.3	46.3	46.3	46.4	46.4
TOTAL	960	1199	1156	1159	1160	1160	1161	1161

TOTAL NUMBER OF OBS: 2504

PCT FREQ NH <5/8: 53.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
3.5	8.5	13.4	15.2	12.9	9.2	10.5	11.4	15.5	.1	2614

PERIOD: (PRIMARY) 1924-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.0	*	.1	*	.0	.1	.2	
1/2<1	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
2<5	PCP	.0	*	.0	*	.2	*	*	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	*	.2	.2	.1	*	.0	.1	.5	
	TOT %	.0	*	.0	.1	.4	.2	.1	*	.0	.1	.9	
5<10	PCP	*	*	.1	.4	1.4	.7	.2	.0	.0	.1	2.9	
	NO PCP	.1	.2	.4	1.7	6.2	3.2	1.4	.1	.0	.6	13.8	
	TOT %	.1	.2	.5	2.2	7.6	3.9	1.6	.1	.0	.7	16.7	
10+	PCP	*	*	*	.3	1.0	.3	.0	*	.0	.0	1.7	
	NO PCP	.2	.2	.5	11.3	48.4	16.6	1.4	.3	.0	1.5	80.3	
	TOT %	.2	.2	.5	11.6	49.4	16.9	1.4	.3	.0	1.5	82.0	
TOT OBS													2918
TOT PCT		.3	.4	1.0	13.8	57.5	21.1	3.2	.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	*	*	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.2	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.2	
2<5	0-3	.0	*	.0	.0	*	*	*	.0	.0	.1	.2	
	4-10	.0	.0	*	.1	.4	.3	.1	.0	.0	.0	.9	
	11-21	.0	.0	.0	.1	.2	.1	*	*	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	.1	.6	.4	.2	*	.0	.1	1.4	
5<10	0-3	.0	.1	.1	.3	.3	.4	.2	.0	.0	.6	2.0	
	4-10	.1	*	.2	1.4	4.5	3.3	1.1	.1	.0	.0	10.7	
	11-21	.0	*	.1	.5	2.0	.7	.3	.0	.0	.0	3.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.4	2.1	6.8	4.4	1.6	.1	.0	.6	16.2	
10+	0-3	.1	*	*	.7	1.9	1.4	.3	*	.0	1.7	6.2	
	4-10	.1	.2	.4	7.3	30.7	14.8	2.2	.3	.0	.0	56.0	
	11-21	.0	.0	.1	3.2	12.7	3.4	.3	*	.0	.0	19.6	
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.2	.3	.5	11.2	45.3	19.6	2.8	.3	.0	1.7	81.9	
TOT OBS													3978
TOT PCT		.3	.4	.9	13.4	52.8	24.6	4.7	.4	.0	2.4	100.0	

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PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975AREA 0011 IVORY COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.7	7.8	18.0	9.5	3.9	.7	.3	1.7	42.6	57.4	589
06009	.0	.3	1.8	11.6	20.3	15.5	6.3	1.7	.6	.8	58.8	41.2	656
12015	.3	.1	.6	8.0	19.1	10.0	2.7	.6	.0	.9	42.3	57.7	698
18021	.0	.2	1.0	6.0	16.2	10.2	1.8	.8	.3	.8	37.3	62.7	616
TOT	2	4	26	215	472	291	94	74	8	26	1162	1397	2559
PCT	.1	.2	1.0	8.4	18.4	11.4	3.7	.9	.3	1.0	45.4	54.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.2	.0	.3	1.9	19.1	78.5	1037
06009	.2	.2	.3	1.9	17.4	80.0	996
12015	.2	.0	.2	.9	13.4	85.3	1076
18021	.0	.0	.1	.9	14.9	84.2	934
TOT	6	2	9	57	654	3315	4043
PCT	.1	.0	.2	1.4	16.2	82.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.2	.9	9.4	34.6	55.9	572
06009	.0	2.3	15.2	44.9	39.9	646
12015	.3	1.2	9.5	33.8	56.7	681
18021	.0	1.2	8.1	30.2	61.7	605
TOT	3	35	266	901	1337	2504
PCT	.1	1.4	10.6	36.0	53.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	*	.0	.1	.0	.0	3	.1
85/89	.0	.0	.0	.0	.1	.2	.0	.0	6	.2
80/84	.0	.0	.0	.1	.8	7.2	6.9	.7	405	15.7
75/79	.0	.0	.0	.0	.3	12.3	45.6	13.7	1849	71.8
70/74	.0	.0	.0	.0	.0	.9	6.8	4.5	314	12.2
TOTAL	0	0	0	3	29	530	1527	488	2577	100.0
PCT	.0	.0	.0	.1	1.1	20.6	59.3	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	*	.1	*	.0	.0	.0
85/89	.0	.0	.0	*	.1	*	.0	.0	.0
80/84	.0	.1	.2	1.6	8.7	4.5	.3	*	.0
75/79	.2	.2	.6	9.5	43.1	13.0	2.1	.3	.9
70/74	.0	.1	.1	2.3	7.2	1.5	.4	.1	.5
TOTAL	.2	.3	.9	13.3	59.1	21.0	2.9	.4	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	84	81	79	77	73	72	66	76.4	1508
06009	90	82	80	77	73	72	66	76.7	1304
12015	93	86	83	79	75	73	68	79.0	1521
18021	91	84	81	78	74	73	67	77.6	1242
TOT	93	84	82	77	73	72	66	77.4	5575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.2	.0	12.2	64.1	23.6	86	657
06009	.0	.2	.2	14.1	60.5	25.1	85	658
12015	.0	.1	3.4	34.1	51.5	10.8	82	697
18021	.0	.0	.8	20.9	61.4	16.9	84	617
TOT	0	3	30	540	1557	499	84	2629

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	*	.1	*	.0	*	5	.0	.2
9/10	.0	.0	.0	.0	.1	.1	.1	.0	7	.0	.3
7/8	.0	.0	.0	.2	.4	.1	*	.0	20	.0	.7
6	.0	.0	*	.3	.1	*	.0	.0	14	.0	.5
5	.0	.0	*	.5	.7	.1	.0	.0	36	.0	1.3
4	.0	.0	.1	.9	.9	.1	.0	.0	56	.0	2.1
3	.0	.0	.6	1.3	1.0	*	.0	.0	79	.0	2.9
2	.0	*	1.3	3.4	1.5	.1	.0	.0	172	.1	6.2
1	.0	.1	3.3	6.2	1.4	.0	.0	.0	300	.1	10.9
0	.0	.2	6.8	11.4	2.0	*	.0	.0	558	*	20.4
-1	.0	.1	8.9	13.6	.8	.0	.0	.0	640	*	23.4
-2	.0	*	5.1	8.6	.4	.0	.0	.0	389	*	14.2
-3	.0	.0	3.3	3.9	.1	.0	.0	.0	201	.0	7.4
-4	.0	.1	2.3	2.1	.3	.0	.0	.0	131	*	4.8
-5	.0	.0	.8	1.3	*	.0	.0	.0	57	.0	2.1
-6	.0	.1	.4	.3	*	.0	.0	.0	20	.0	.7
-7/-8	.0	.1	.4	.5	*	.0	.0	.0	30	.0	1.1
-9/-10	*	.1	.1	.1	.0	.0	.0	.0	11	.0	.*
-11/-13	*	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	2	30	916	1493	266	18	3	1	2729	10	2719
PCT	.1	1.1	33.6	54.7	9.7	.7	.1	*	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.0	.1
1-2	.1	.2	.0	.0	.0	.0	.2	.1	*	*	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.0	.0	.0	.0	.3	.1	.2	*	.0	.0	.0	.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	*	.0	.0	.0	.0	.0	*	.4	.7	.2	.0	.0	.0	1.2
1-2	.0	.5	.1	.0	.0	.0	.6	.2	3.9	.9	.0	.0	.0	4.9
3-4	.0	.1	.0	.0	.0	.0	.1	.0	2.8	2.5	*	.0	.0	5.3
5-6	.0	.0	.0	.0	.0	.0	.0	*	.3	1.0	.1	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.6	.1	.0	.0	.0	.7	.5	7.9	4.7	.1	.0	.0	13.2

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

TABLE 18 (CONT)

AREA 0011 IVORY COAST
2.7N 6.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	3.5	2.2	.0	.0	.0	4.6	.4	1.7	.1	.0	.0	.0	2.2	
1-2	.7	22.1	5.9	.0	.0	.0	28.7	.8	8.5	1.1	.0	.0	.0	10.4	
3-4	*	10.7	9.0	.0	.0	.0	19.7	*	3.3	1.9	.0	.0	.0	5.2	
5-6	*	1.2	4.9	.0	.0	.0	6.2	.0	.5	1.1	.0	.0	.0	1.6	
7	.0	.6	.8	.0	.0	.0	1.4	.0	.2	.1	.0	.0	.0	.3	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.8	38.0	20.9	.1	.0	.0	60.8	1.2	14.2	4.3	.0	.0	.0	19.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.5	*	.2	.0	.0	.0	.0	.2	
1-2	.1	1.1	.2	.0	.0	.0	1.4	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.1	*	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.6	.3	.0	.0	.0	2.1	*	.3	.1	.0	.0	.0	.4	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	6.6	.5	.0	.0	.0	12.6	
1-2	2.0	35.8	8.1	.0	.0	.0	46.0	
3-4	.1	16.7	13.3	.1	.0	.0	30.1	
5-6	.1	1.9	6.9	.1	.0	.0	8.9	
7	.0	1.1	1.1	.0	.0	.0	2.2	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	62.3	29.9	.2	.0	.0	100.0	1855

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<6	6-7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	13.4	13.8	6.7	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	891	3
6-7	.0	2.6	9.7	9.0	4.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	608	4
8-9	*	.6	3.8	4.1	1.9	.5	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	256	5
10-11	.0	.5	1.0	.8	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	5
12-13	.0	.0	2.2	1.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	4
>13	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
INDET	3.1	5.2	5.0	1.6	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	362	3
TOTAL	127	511	814	548	221	54	10	5	0	0	0	0	0	0	0	0	2290	4
PCT	5.5	22.3	35.5	23.9	9.7	2.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

NOVEMBER

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.9	.0	.0	.0	.0	.0	.0	6.9	12.1	5.2	.0	.0	.0	.0	75.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	97.5
E	2.8	2.8	.0	.0	.0	.0	.0	5.5	5.5	2.1	.0	.0	.0	.0	86.9
SE	.9	2.7	.2	.0	.0	.0	.0	3.8	4.4	1.0	*	.0	.4	.2	90.1
S	1.1	1.8	.9	.0	.0	.0	.0	3.8	3.5	1.3	.2	.0	.5	*	90.7
SW	2.5	1.6	.8	.0	.0	.0	.0	4.9	2.8	2.4	*	.2	.1	.0	89.5
W	3.7	3.4	1.3	.0	.0	.0	.0	8.4	2.4	2.4	.0	.0	.0	.0	86.9
NW	7.3	3.2	.0	.0	.0	.0	.0	10.5	4.8	12.9	.0	.0	.0	.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	2.6	.0	.0	.0	.0	.0	5.3	2.6	.0	.0	.0	.0	.0	92.1
TOT_PCT	1.5	2.0	.7	.0	.0	.0	.0	4.2	3.6	1.6	.1	*	.4	.1	90.0
TOT_OBS:	2897														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	1.8	2.9	.4	.0	.0	.0	.0	5.2	4.7	4.2	.1	.0	.6	.0	85.4
06009	3.2	2.2	1.5	.0	.0	.0	.0	6.9	4.4	1.7	.3	.1	.3	.1	86.5
12015	.9	1.5	.7	.0	.0	.0	.0	3.1	2.5	.1	.1	.0	.2	.0	93.9
18021	1.3	1.9	.3	.0	.0	.0	.0	3.5	3.2	1.2	.1	.0	.4	.1	91.6
TOT PCT TOT OBS:	1.8 2990	2.1	.7	.0	.0	.0	.0	4.6	3.7	1.7	.2	*	.4	.1	89.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.2	.0	.0	.0	.0		.4	5.8	.1	.2	.5	.8	.3	.0	.5	.4	
NE	.1	.2	.1	.0	.0	.0		.4	7.5	.3	.4	.8	.7	.4	.1	.4	.1	
E	.4	.9	.1	.0	.0	.0		1.4	6.2	1.2	1.5	1.5	2.9	1.7	.8	.9	.5	
SE	1.1	12.9	4.9	.1	.0	.0		19.0	8.8	19.3	15.6	22.2	16.5	19.8	16.2	20.0	17.4	
S	3.1	34.3	9.4	.1	.0	.0		46.9	8.2	47.8	39.8	51.3	40.8	45.9	44.0	54.7	43.0	
SW	2.0	18.9	3.5	.0	.0	.0		24.4	7.7	24.1	31.6	17.6	26.7	23.2	32.5	20.0	29.7	
W	.7	4.0	.5	.0	.0	.0		5.2	6.9	4.9	9.3	3.1	8.4	5.5	5.8	1.7	6.9	
NW	.2	.7	.0	.0	.0	.0		.9	5.6	.7	.9	1.4	1.7	1.0	.2	.5	.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5							1.5	.0	1.7	.7	1.7	1.6	2.1	.2	1.4	1.2	
TOT OBS	520	4065	1039	13	0	0		5637	7.9	1077	411	783	499	1215	417	733	502	
TOT PCT	9.2	72.1	18.4	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.2	.1	.0	.0	.0	.0	.4	5.8	.2	.6	.3	.5
NE	.2	.2	.0	.0	.0	.0	.4	7.5	.3	.7	.3	.3
E	.8	.5	.0	.0	.0	.0	1.4	6.2	1.2	2.0	1.5	.7
SE	5.9	12.5	.5	.0	.0	.0	19.0	8.8	18.3	20.0	18.9	18.9
S	17.1	28.6	1.1	.0	.0	.0	46.9	8.2	45.6	47.2	45.4	49.9
SW	10.2	13.9	.3	.0	.0	.0	24.4	7.7	26.2	21.1	25.6	23.9
W	2.7	2.6	.0	.0	.0	.0	5.2	6.9	6.1	5.1	5.6	3.8
NW	.6	.3	.0	.0	.0	.0	.9	5.6	.7	1.5	.8	.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5					.0	1.5	.0	1.4	1.6	1.7	1.3
TOT OBS	2210	3310	117	0	0	5637	7.9		1488	1282	1632	1235
TOT PCT	39.2	58.7	2.1	.0	.0	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

NOVEMBER

AREA 0011 IVORY COAST
2.8N 6.2M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	1.4	6.3	74.4	17.7	.2	.0	.0	7.9	100.0	1488
06009	1.6	7.6	73.7	16.8	.2	.0	.0	7.8	100.0	1282
12015	1.7	10.3	69.4	18.2	.3	.0	.0	7.8	100.0	1632
18021	1.3	6.2	71.1	21.3	.2	.0	.0	8.3	100.0	1235
TOT	85	435	4065	1099	13	0	0	7.9		5637
PCT	1.5	7.7	72.1	18.4	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.3	.1		6.1
NE	*	.1	.2	.0		5.3
E	.2	.2	.6	.4		5.4
SE	3.0	6.3	7.8	3.8		5.0
S	9.1	16.2	22.4	7.9		4.8
SW	2.9	4.9	7.0	2.1		4.7
W	.3	.5	.9	.3		5.0
NW	.1	*	.6	.3		6.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.6	.2		4.4
TOT OBS	404	712	1006	379	2501	4.8
TOT PCT	16.2	28.5	40.2	15.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	
.0	.0	.0	*	*	.1	.1	.0	.0	.0	.1	
.0	.0	.0	*	.3	.1	.1	.1	.0	.0	.7	
*	*	.3	1.3	3.2	1.9	.7	.2	*	.1	12.9	
.1	.1	.5	3.5	8.1	5.5	1.2	.6	.3	.3	35.4	
.0	.0	.2	.7	2.3	1.8	.6	.2	*	*	11.0	
.0	*	*	.2	.3	.3	*	.1	.0	.0	1.2	
.0	.0	.0	.2	.2	.2	.1	.0	.0	*	.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	*	.3	.1	.0	.0	.0	.0	1.1	
3	4	25	153	369	249	72	32	8	12	1374	2501
.1	.2	1.0	6.1	14.8	10.0	2.9	1.3	.3	.5	62.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	
= OR >6500	.7	.7	.7	.7	.7	.7	.7	.7	
= OR >5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
= OR >3500	4.3	4.8	4.9	4.9	4.9	4.9	4.9	4.9	
= OR >2000	13.3	14.8	15.0	15.0	15.0	15.0	15.0	15.0	
= OR >1000	25.7	29.4	29.6	29.7	29.7	29.7	29.7	29.7	
= OR >600	30.8	35.2	35.6	35.6	35.6	35.7	35.7	35.7	
= OR >300	31.4	36.2	36.6	36.7	36.7	36.7	36.7	36.7	
= OR >150	31.5	36.3	36.8	36.9	36.9	36.9	36.9	36.9	
= OR >0	31.5	36.4	36.9	37.0	37.0	37.0	37.0	37.0	
TOTAL	807	933	945	947	947	948	948	948	

TOTAL NUMBER OF OBS: 2561

PCT FREQ NH < 5/8: 63.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
3.6	7.6	15.0	20.0	15.9	9.6	9.5	8.1	10.7	.0	2696

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
1/2<1	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*
1<2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
2<5	PCP	*	.0	.0	*	.1	.1	.1	*	.0	*	.4	
	NO PCP	.0	.0	.0	.1	.1	.0	*	*	.0	.0	.2	
	TOT %	*	.0	.0	.1	.2	.1	.1	*	.0	*	.6	
5<10	PCP	.0	.0	*	.4	.8	.4	*	.1	.0	.0	1.7	
	NO PCP	.1	*	.2	2.6	4.5	2.7	.8	.2	.0	.1	11.1	
	TOT %	.1	*	.2	2.9	5.3	3.1	.8	.2	.0	.1	12.7	
10+	PCP	.0	.0	*	.4	1.2	.3	.1	*	.0	*	2.1	
	NO PCP	.4	.3	1.0	17.9	46.6	14.7	1.6	.8	.0	1.1	84.5	
	TOT %	.4	.3	1.0	18.4	47.8	15.0	1.7	.8	.0	1.2	86.6	
TOT OBS													2895
TOT PCT		.5	.3	1.3	21.4	53.3	18.3	2.6	1.1	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	*	.1	.0	*	.0	.0	.1	.2	
	4-10	*	*	*	.1	.3	.2	*	*	.0	.0	.8	
	11-21	.0	.0	*	.1	*	.0	*	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	.2	.4	.2	.1	*	.0	.1	1.1	
5<10	0-3	.0	.0	*	.3	.3	.3	.2	.1	.0	.1	1.4	
	4-10	*	.1	.1	1.8	4.1	2.6	.7	.1	.0	.0	9.5	
	11-21	.0	.0	*	.6	1.1	.5	.1	.0	.0	.0	2.3	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.2	2.7	5.4	3.5	1.0	.2	.0	.1	13.2	
10+	0-3	.1	.1	.3	.8	2.8	1.7	.3	.1	.0	1.4	7.6	
	4-10	.2	.1	.6	11.2	32.9	14.0	2.2	.6	.0	.0	61.7	
	11-21	*	.1	.1	4.6	8.4	2.6	.3	*	.0	.0	16.1	
	22+	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.3	.3	.9	16.6	44.1	18.3	2.8	.7	.0	1.4	85.4	
TOT OBS													4090
TOT PCT		.4	.4	1.2	19.5	50.0	22.1	3.9	.9	.0	1.6	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.7	5.1	15.2	8.7	3.0	.3	.3	.5	33.8	66.2	574
06009	.2	.3	1.1	8.3	17.6	11.0	3.9	1.2	.0	.6	44.1	55.9	648
12015	.1	.0	.9	5.0	12.6	10.5	2.7	1.9	.4	.5	34.6	65.4	780
18021	.2	.3	1.6	5.1	12.6	9.0	1.9	1.1	.5	.2	32.5	67.5	625
TOT	3	4	28	154	378	259	75	32	8	12	953	1674	2627
PCT	.1	.2	1.1	5.9	14.4	9.9	2.9	1.2	.3	.5	36.3	63.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.1	1.0	16.5	82.5	1039
06009	.3	.1	.0	1.8	14.4	83.4	999
12015	.0	.3	.0	1.3	10.6	87.9	1200
18021	.0	.1	.1	.6	12.3	86.9	945
TOT	3	5	2	49	558	3566	4183
PCT	.1	.1	*	1.2	13.3	85.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50'0	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.7	6.2	28.3	65.4	561
06009	.2	1.7	10.4	34.4	55.1	633
12015	.1	1.2	6.9	28.8	64.4	758
18021	.2	2.1	7.6	25.9	66.5	609
TOT	3	37	199	753	1609	2561
PCT	.1	1.4	7.8	29.4	62.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	*	.1	.0	.0	3	.1
85/89	.0	.0	.0	*	.3	.9	.5	.0	45	1.7
80/84	.0	.0	.0	.1	.7	13.3	21.9	2.8	1007	38.9
75/79	.0	.0	.0	.0	.2	5.8	39.5	11.1	1462	56.5
70/74	.0	.0	.0	.0	*	.1	1.4	1.1	67	2.6
65/69	.0	.0	.0	.0	.0	*	.1	*	4	.2
TOTAL	0	0	0	4	32	523	1639	390	2588	100.0
PCT	.0	.0	.0	.2	1.2	20.2	63.3	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.1	*	*	.0	.0	.0
.0	.0	.1	.4	.9	.3	.1	.1	.0	.0
.1	.2	.5	7.0	19.7	9.5	1.1	.3	.0	.6
.3	.1	.6	12.6	33.0	7.7	1.0	.5	.0	.7
.0	.0	.0	.8	1.4	.4	*	*	.0	.0
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.4	.3	1.1	20.9	55.1	17.8	2.2	.9	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	82	81	79	75	73	68	78.6	1503
06009	87	83	82	79	75	73	68	78.5	1303
12015	93	88	85	81	76	75	66	80.9	1651
18021	88	85	82	80	76	74	65	79.4	1238
TOT	93	86	83	79	75	74	65	79.4	5695

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.5	11.7	69.3	18.6	85	652
06009	.0	.0	.6	10.1	68.1	21.2	86	646
12015	.0	.1	2.8	36.5	52.0	8.6	81	754
18021	.0	.5	.7	20.3	65.5	13.1	84	612
TOT	0	4	32	540	1685	403	84	2664

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PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975AREA 0011 IVORY COAST
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WG FOG
14/16	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.0	.1	*	5	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.1	*	12	.0	.4
7/8	.0	.0	.0	.1	.1	.1	.0	.0	10	.0	.4
6	.0	.0	*	.1	.3	.3	*	.0	20	.0	.7
5	.0	.0	*	.2	.4	.2	.0	.0	24	.0	.9
4	.0	.0	*	.4	.6	.4	*	.0	40	.0	1.5
3	.0	.0	.1	.5	1.1	.6	.0	.0	66	.0	2.4
2	.0	.0	.3	1.9	2.3	.3	.0	.0	133	*	4.8
1	.0	*	1.3	4.7	3.9	.2	.0	.0	278	.0	10.1
0	.0	.0	2.9	8.8	5.2	.2	.0	.0	470	.1	17.0
-1	.0	.0	4.0	13.9	4.8	.1	.0	.0	625	.0	22.7
-2	.0	.0	1.9	10.8	4.1	*	.0	.0	462	*	16.8
-3	.0	.0	1.5	8.0	1.1	.0	.0	.0	291	*	10.5
-4	.0	.0	.8	3.7	1.0	.0	.0	.0	152	.0	5.5
-5	.0	.0	.6	2.3	.4	.0	.0	.0	91	.0	3.3
-6	.0	.0	.2	.7	.1	.0	.0	.0	28	.0	1.0
-7/-8	*	.1	.4	.3	.1	.0	.0	.0	24	.0	.9
-9/-10	.1	*	.1	.1	.0	.0	.0	.0	8	.0	.3
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	6	.0	.1
-14/-16	.1	*	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	6		392	1550	706	76	7	2	2750	5	2745
PCT	.2	.4	14.3	56.4	25.7	2.8	.3	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	*	.0	.0	.0	.0	.0	*		*	.0	.0	.0	.0	.0	*	
1-2	.1	.2	.0	.0	.0	.0	.2		.0	*	.1	.0	.0	.0	.1	
3-4	.0	.0	.1	.0	.0	.0	.1		.0	.0	.1	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.2	.1	.0	.0	.0	.3		*	*	.1	.0	.0	.0	.1	

HGT	E								SE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.1	.0	.0	.0	.0	.4		.4	1.6	.1	.0	.0	.0	2.0	
1-2	*	.5	.0	.0	.0	.0	.5		.3	7.8	1.6	.0	.0	.0	9.7	
3-4	.0	.1	*	.0	.0	.0	.1		.0	3.1	3.6	.0	.0	.0	6.7	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.5	1.3	.0	.0	.0	1.8	
7	.0	.0	.0	.0	.0	.0	.0		.0	*	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	.7	*	.0	.0	.0	1.0		.7	13.0	7.0	.0	.0	.0	20.7	

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.1	5.2	.4	.0	.0	.0		6.7	.6	1.9	.1	.0	.0	.0		2.6
1-2	1.1	27.3	4.3	.0	.0	.0		32.8	.4	8.3	1.2	.0	.0	.0		9.8
3-4	.2	7.9	5.5	.0	.0	.0		13.6	.1	1.9	.5	.0	.0	.0		2.5
5-6	.0	1.3	2.2	.0	.0	.0		3.5	.0	.5	.6	.0	.0	.0		1.1
7	.0	.2	.2	.0	.0	.0		.4	.0	*	.1	.0	.0	.0		.1
8-9	.0	.1	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.4	42.0	12.7	.0	.0	.0		57.1	1.1	12.6	2.6	.0	.0	.0		16.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0		.4	.2	.2	.0	.0	.0	.0		.3	
1-2	*	1.2	.1	.0	.0	.0		1.3	.1	.4	.0	.0	.0	.0		.5	
3-4	.0	*	.1	.0	.0	.0		.1	.0	.1	*	.0	.0	.0		.1	
5-6	.0	.1	.0	.0	.0	.0		.1	.0	.0	*	.0	.0	.0		*	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	1.5	.2	.0	.0	.0		1.9	.3	.7	*	.0	.0	.0		1.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	9.2	.6	.0	.0	.0	14.7	
1-2	2.4	45.3	7.1	.0	.0	.0	54.8	
3-4	.3	12.9	9.7	.0	.0	.0	23.0	
5-6	.0	2.2	4.2	.0	.0	.0	6.4	
7	.0	.2	.6	.0	.0	.0	.8	
8-9	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.6	70.1	22.3	.0	.0	.0	100.0	1920

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.0	16.9	15.5	6.5	1.0	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	985	3
6-7	.0	2.4	10.1	6.7	3.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	541	4
8-9	.0	1.1	2.9	3.0	1.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	5
10-11	.0	1.7	1.6	.7	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	3
12-13	.0	.0	1.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	4
>13	.0	.0	.0	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
INDET	3.1	5.7	6.3	1.3	.5	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	393	2
TOTAL	118	647	881	454	175	31	14	1	1	0	0	0	0	0	0	0	0	0	0	0	2322	3
PCT	5.1	27.9	37.9	19.6	7.5	1.3	.6	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1859-1975

DECEMBER

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	8.8	8.8	2.9	.0	.0	.0	.0	20.4	.0	5.8	2.9	.0	10.2	.0	63.5
NE	12.6	.6	3.1	.0	.0	.0	.0	16.4	5.0	3.1	.0	.0	8.8	.0	69.2
E	4.4	2.8	1.2	.0	.0	.0	.0	8.3	4.8	2.4	2.4	.0	3.2	.0	79.0
SE	3.3	2.1	.3	.0	.0	.0	.0	5.7	3.2	1.6	.7	.0	.5	.0	88.6
S	1.7	2.3	.4	.0	.0	.0	.0	4.3	3.9	2.0	.2	.0	.7	.0	89.2
SW	.8	.3	.0	.0	.0	.0	.0	1.1	2.1	4.4	.4	.2	1.8	.2	89.8
W	3.5	3.1	.8	.0	.0	.0	.8	8.2	.8	4.9	1.6	.6	1.4	.0	84.2
NW	.8	.0	3.1	.0	.0	.0	.0	3.9	.0	.0	.0	.0	1.6	.0	94.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	2.1	.0	.0	.0	.0	.0	3.2	2.1	4.3	3.2	.0	4.3	.0	84.0
TOT PCT	2.2	2.0	.4	.0	.0	.0	*	4.6	3.1	2.6	.6	.1	1.3	*	88.1
TOT OBS:	2865														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.8	2.5	.7	.0	.0	.0	.0	5.8	2.8	4.9	.0	.3	1.0	.0	85.7
06009	3.5	3.1	.7	.0	.0	.0	.1	7.5	3.7	3.8	.7	.0	.8	.0	84.4
12015	1.7	1.4	.0	.0	.0	.0	.0	3.1	3.6	.5	.7	.0	2.2	.1	89.8
18021	1.0	1.1	.4	.0	.0	.0	.0	2.5	2.2	1.7	.7	.0	1.1	.0	92.0
TOT PCT TOT OBS:	2.2 2986	2.0	.4	.0	.0	.0	*	4.7	3.1	2.6	.5	.1	1.3	*	88.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	.9	.1	.0	.0	.0		1.4	5.0		.7	1.1	1.8	3.0	1.7	1.3	.8	1.1
NE	.4	1.0	.3	*	.0	.0		1.7	7.2		.8	1.3	2.3	2.8	2.5	1.5	1.0	1.3
E	.6	1.6	.3	*	.0	.0		2.5	6.3		2.1	1.7	2.6	4.0	2.5	4.0	1.8	2.4
SE	1.7	11.2	3.4	*	.0	.0		16.4	8.0		18.9	13.9	18.9	12.9	16.3	13.2	17.4	14.0
S	3.5	28.1	8.2	.1	.0	.0		39.9	8.1		41.1	32.2	42.4	32.6	39.8	37.0	48.9	35.3
SW	2.7	17.5	2.9	*	.0	.0		23.0	7.2		24.3	27.4	19.3	22.7	20.2	26.2	20.9	30.0
W	1.7	6.4	.6	*	.0	.0		8.8	6.4		7.0	13.8	6.0	13.2	8.6	10.9	6.0	11.3
NW	.5	1.3	.2	.0	.0	.0		2.0	5.9		1.8	1.9	1.0	4.1	2.9	1.9	.9	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0		3.2	6.7	5.6	4.6	5.4	4.0	2.3	3.3
TOT OBS	916	3918	915	11	0	0		5760	7.3		1095	419	792	522	1204	428	785	515
TOT PCT	15.9	68.0	15.9	.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.0	.4	.0	.0	.0		1.4	5.0	.8	2.3	1.6	.9	
NE	.9	.7	.1	.0	.0		1.7	7.2	1.0	2.5	2.2	1.1	
E	1.6	.8	.1	.0	.0		2.5	6.3	2.0	3.2	2.9	2.1	
SE	6.5	9.5	.4	*	.0		16.4	8.0	17.5	16.6	15.5	16.1	
S	14.9	24.0	.9	*	.0		39.9	8.1	38.6	38.5	39.1	43.5	
SW	11.0	11.8	.3	*	.0		23.0	7.2	25.2	20.7	21.8	24.5	
W	5.1	3.6	.1	.0	.0		8.8	6.4	8.9	8.9	9.2	8.1	
NW	1.3	.7	*	.0	.0		2.0	5.9	1.8	2.3	2.6	1.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.3						4.3	.0	4.2	5.2	5.0	2.7	
TOT OBS	2693	2963	102	2	0	5760		7.3	1314	1314	1632	1300	
TOT PCT	46.8	51.4	1.8	*	.0		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1859-1975AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00603	4.2	10.1	70.3	15.3	.1	.0	.0	7.3	100.0	1514
06609	5.2	11.8	68.6	14.1	.3	.0	.0	7.1	100.0	1314
12615	5.0	13.2	66.2	15.3	.2	.0	.0	7.0	100.0	1632
18621	2.7	11.1	67.0	19.1	.2	.0	.0	7.7	100.0	1300
TOT	248	668	3918	915	11	0	0	7.3		5760
PCT	4.3	11.6	68.0	15.9	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.2	.4	.5		5.6
NE	.2	.3	.5	.6		5.5
E	.4	.5	.6	.6		5.0
SE	3.5	5.3	6.3	4.2		4.9
S	8.4	12.9	19.7	7.8		4.8
SW	4.0	5.0	7.0	2.6		4.6
W	.7	.9	2.0	.9		5.2
NW	.3	.3	.2	.2		4.2
VAR	.0	.0	.0	.0		.0
CALM	.7	.9	.8	.5		4.3
TOT OBS	458	655	930	444	2487	4.8
TOT PCT	18.4	26.3	37.4	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 5/8 ANY HGT	TOTAL OBS
N	.1	*	*	.1	.1	.1	.1	*	.0	*	.5	
NE	.0	.0	*	.2	.3	.1	.1	.0	*	*	.8	
E	.0	.0	.0	.1	.3	.2	.1	*	.0	.0	1.4	
SE	.1	.0	.2	1.4	3.0	1.5	.6	.3	*	.2	11.9	
S	*	.0	.5	2.8	7.6	5.2	1.5	.6	.2	.3	30.1	
SW	.0	.0	.2	1.3	2.0	1.4	.4	.3	.1	.1	12.9	
W	.1	.0	.0	.3	.6	.3	*	*	*	.0	3.0	
NW	.0	*	.0	*	.0	.3	.0	*	.0	*	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.2	.2	.3	.1	.0	*	.0	2.1	
TOT OBS	10	1	26	161	351	232	73	35	9	15	1574	2487
TOT PCT	.4	*	1.0	6.5	14.1	9.3	2.9	1.4	.4	.6	63.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	4.5	5.3	5.5	5.5	5.5	5.5	5.5	5.5
= OR >2000	12.2	14.5	14.8	14.8	14.8	14.8	14.8	14.8
= OR >1000	23.8	28.1	28.6	28.7	28.7	28.7	28.7	28.7
= OR >600	29.0	34.2	35.1	35.1	35.1	35.1	35.1	35.1
= OR >300	29.5	35.1	35.9	36.0	36.0	36.0	36.1	36.1
= OR >150	29.5	35.1	35.9	36.0	36.0	36.0	36.1	36.1
= OR >0	29.7	35.4	36.3	36.4	36.4	36.4	36.5	36.5
TOTAL	765	911	934	938	938	938	940	940

TOTAL NUMBER OF OBS: 2576

PCT FREQ NH < 5/8: 63.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
5.5	7.8	16.3	18.1	15.1	9.3	9.5	7.5	10.7	.1	2724

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1859-1975

DECEMBER

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.1	.0	*	.0	.0	.1	
	TOT %	*	.0	.0	*	.1	.1	.0	*	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.1	.1	.1	.1	.1	.0	.0	.0	.4	
	TOT %	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.5	
2<5	PCP	.1	.1	.1	.1	.1	*	*	.0	.0	.0	.6	
	NO PCP	.1	.1	.1	.1	.2	.1	.1	.0	.0	.2	1.0	
	TOT %	.2	.3	.2	.2	.3	.1	.1	.0	.0	.2	1.6	
5<10	PCP	.1	.1	.1	.5	.7	.1	.2	*	.0	*	1.9	
	NO PCP	.2	.4	.4	2.5	4.7	3.0	1.1	.3	.0	.4	13.0	
	TOT %	.3	.5	.5	3.0	5.4	3.1	1.3	.4	.0	.4	14.8	
10+	PCP	.0	*	*	.5	1.2	*	.2	*	.0	*	2.0	
	NO PCP	.7	.6	1.5	16.1	40.6	15.4	2.8	.7	.0	2.6	80.9	
	TOT %	.7	.6	1.5	16.6	41.8	15.4	3.0	.7	.0	2.6	82.9	
TOT OBS													
TOT PCT													
		1.2	1.4	2.2	19.9	47.7	18.8	4.5	1.1	.0	3.2	100.0	2864

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	*	*	*	.0	*	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	*	*	*	.0	*	.0	*	.2	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	*	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	*	*	*	.0	.0	*	.2	
1<2	0-3	*	*	*	.1	.1	.1	*	.0	.0	*	.3	
	4-10	*	.0	*	*	*	*	.0	.0	.0		.1	
	11-21	*	.0	.0	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.1	.1	.1	.1	.0	.0	*	.5	
2<5	0-3	*	.1	.1	.1	*	*	*	.0	.0	.3	.6	
	4-10	.1	.1	.1	.1	.2	.2	.1	.0	.0		.9	
	11-21	*	*	*	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	*	*	*	*	.0	.0	.0		*	
	TOT %	.1	.2	.2	.3	.4	.2	.1	.0	.0	.3	1.8	
5<10	0-3	.1	.1	.1	.5	.7	.4	.4	.2	.0	.6	3.1	
	4-10	.2	.4	.4	1.8	4.2	2.4	.8	.3	.0		10.5	
	11-21	*	.1	.1	.4	1.0	.5	.1	*	.0		2.2	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0		*	
	TOT %	.4	.7	.5	2.7	5.9	3.3	1.3	.5	.0	.6	15.9	
10+	0-3	.4	.2	.3	1.2	2.5	2.2	.8	.2	.0	3.1	10.9	
	4-10	.5	.5	.9	9.8	27.0	14.1	3.1	.6	.0		56.5	
	11-21	.0	.1	.1	3.5	7.9	1.9	.4	*	.0		13.9	
	22+	.0	.0	.0	*	.1	.0	*	.0	.0		.1	
	TOT %	.9	.8	1.4	14.5	37.5	18.1	4.3	.9	.0	3.1	81.4	
TOT OBS													
TOT PCT													
		1.4	1.7	2.1	17.6	43.9	21.9	5.8	1.3	.0	4.1	100.0	4113

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1859-1975

DECEMBER

AREA 0011 IVORY COAST
2.8N 6.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.5	6.2	15.4	7.2	2.8	1.0	.2	.3	33.7	66.3	597
06009	.5	.2	2.0	10.6	14.4	8.3	3.4	1.4	.0	1.1	41.7	58.3	653
12015	.4	.0	.8	3.9	12.7	10.9	2.3	2.2	.7	.5	34.4	65.6	741
18021	.6	.0	.8	4.7	12.0	9.2	3.2	.9	.5	.9	32.6	67.4	666
TOT	10	1	27	166	360	239	77	37	9	19	945	1712	2657
PCT	.4	*	1.0	6.2	13.5	9.0	2.9	1.4	.3	.7	35.6	64.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.2	.7	1.7	16.2	80.9	1059
06009	.2	.1	.3	2.8	18.9	77.7	1000
12015	.3	.2	.7	1.2	14.5	83.1	1166
18021	.0	.2	.5	1.8	13.9	83.7	1010
TOT	9	7	23	78	670	3448	4235
PCT	.2	.2	.5	1.8	15.8	81.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.7	7.7	27.8	64.4	568
06009	.5	2.5	15.0	28.2	56.7	638
12015	.4	1.4	6.5	29.7	63.8	718
18021	.6	1.4	6.9	26.4	66.7	652
TOT	10	39	232	723	1621	2576
PCT	.4	1.5	9.0	28.1	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	*	.0	.0	3	.1
85/89	.0	.0	.0	*	.2	2.0	.4	.2	68	2.8
80/84	.0	.0	.0	.1	.7	17.8	32.8	3.8	1359	55.2
75/79	.0	.0	.1	.3	3.8	26.3	10.2	1002	40.7	
70/74	.0	.0	.0	.0	.0	.5	.7	28	1.1	
TOTAL	0	0	0	5	33	582	1477	363	2460	100.0
PCT	.0	.0	.0	.2	1.3	23.7	60.0	14.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	*	.1	.0	.0	.0	.0	.0
85/89	.1	*	*	.5	1.2	.5	.3	*	*	.1
80/84	.6	.5	1.3	9.8	24.8	12.6	2.8	.6	.0	2.2
75/79	.5	.5	.8	9.4	22.5	5.1	.9	.3	.0	.8
70/74	.2	.1	*	.3	.5	*	.0	*	.0	*
TOTAL	1.3	1.1	2.1	20.0	49.0	18.3	4.1	.9	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	83	82	80	76	74	68	79.6	1540
06009	87	84	82	80	76	73	67	79.4	1335
12015	92	88	86	82	77	75	70	81.6	1644
18021	88	85	83	81	77	75	72	80.5	1318
TOT	92	86	84	80	76	74	67	80.3	5837

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.1	13.3	67.1	18.3	85	617
06009	.0	.2	.8	16.2	60.4	22.5	85	619
12015	.0	.3	2.6	41.8	48.3	7.0	81	685
18021	.0	.2	.8	22.6	64.7	11.8	83	629
TOT	0	5	35	610	1926	374	83	2550

DECEMBER

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1859-1975

TABLE 17

AREA 0011 IVORY COAST
2.8N 6.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	*	.0	*	2	.0	.1
9/10	.0	.0	.0	.0	.1	.2	*	10	.0	.4
7/8	.0	.0	.0	.2	.3	*	.0	14	.0	.5
6	.0	.0	.0	*	.1	.4	*	15	.0	.5
5	.0	.0	*	.1	.4	.4	.1	28	.0	1.0
4	.0	.0	.0	.2	.9	.5	.0	45	*	1.6
3	.0	.0	*	.4	1.0	.4	.0	50	.0	1.8
2	.0	.0	*	1.1	2.8	.6	.0	129	.1	4.5
1	.0	.0	.2	2.6	4.4	.4	.0	212	*	7.6
0	.0	.0	.9	7.5	8.7	.2	.0	478	.1	17.1
-1	.0	.0	1.5	13.0	10.4	*	.0	695	.1	24.9
-2	.0	.0	.9	10.0	6.8	.0	.0	490	*	17.6
-3	.0	.0	.6	7.1	1.9	.0	.0	266	.1	9.5
-4	.0	.0	.6	3.6	1.4	.0	.0	157	.0	5.7
-5	.0	.0	.7	2.2	.6	.0	.0	97	.0	3.5
-6	.0	.0	.4	.6	*	.0	.0	30	.0	1.1
-7/-8	.0	*	.4	.6	.1	.0	.0	33	.0	1.2
-9/-10	.0	.0	.4	.1	.0	.0	.0	15	.0	.5
-11/-13	.0	.1	.1	.0	.0	.0	.0	8	.0	.3
-14/-16	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	5	189	1373	91	5	2776	15	2761	
PCT	*	.2	6.8	49.5	40.1	3.3	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.4	.2	.2	.1	.0	.0	.0	.4
1-2	.1	.5	.0	.0	.0	.0	.6	.1	.6	.1	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.6	.0	.0	.0	.0	1.0	.4	1.0	.3	.0	.0	.0	1.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.7	.5	1.3	.1	.0	.0	.0	1.9
1-2	.0	.9	.0	.0	.0	.0	.9	.4	8.9	1.2	.0	.0	.0	8.6
3-4	.0	.2	.2	.0	.0	.0	.4	.1	2.9	2.4	*	.0	.0	5.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.3	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.4	.2	.0	.0	.0	1.9	1.0	11.7	5.2	*	.0	.0	17.8

PERIOD: (OVER-ALL) 1963-1975

DECEMBER
TABLE 18 (CONT)AREA 0011 IVORY COAST
2.8N 6.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	3.9	.7	.0	.0	.0	5.8	1.1	2.2	.2	.0	.0	.0	3.4
1-2	.7	22.8	3.5	.0	.0	.0	27.1	.3	8.4	1.2	.0	.0	.0	9.8
3-4	.0	8.5	6.1	.0	.0	.0	14.8	.1	2.1	.9	.0	.0	.0	3.1
5-6	.0	1.1	2.4	.1	.0	.0	3.6	.0	.5	.4	.0	.0	.0	.8
7	.0	.0	.5	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	36.4	13.3	.1	.0	.0	51.7	1.4	13.3	2.7	.0	.0	.0	17.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.6	.0	.0	.0	.0	1.1	.1	.1	.0	.0	.0	.0	.2	
1-2	.1	1.6	.2	.0	.0	.0	1.9	.1	.5	.0	.0	.0	.0	.6	
3-4	.0	.6	.2	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.8	.4	.0	.0	.0	3.8	.2	.7	.0	.0	.0	.0	.9	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.3	8.5	.9	.0	.0	.0	18.7	
1-2	2.3	41.6	6.1	.0	.0	.0	50.0	
3-4	.2	14.4	9.7	.1	.0	.0	24.3	
5-6	.0	2.0	4.1	.1	.0	.0	6.1	
7	.0	.2	.6	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.8	66.6	21.5	.1	.0	.0	100.0	1797

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	18.6	16.1	7.0	1.2	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1087	3
6-7	.0	2.9	9.5	5.2	1.7	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	468	4
8-9	.0	1.3	2.5	2.6	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	4
10-11	.0	.0	.8	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	4
12-13	.0	.0	1.3	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	4
>13	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
INDET	3.9	7.7	6.2	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	451	2
TOTAL	172	738	847	416	107	27	11	0	5	0	0	0	0	0	0	0	0	0	0	2323	3
PCT	7.4	31.8	36.5	17.9	4.6	1.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1855-1976

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WO PCPN	FGG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	5.1	5.5	.6	.0	.0	.0	.0	11.0	4.1	3.2	1.9	.0	1.9	.2	70.0
NE	13.0	3.8	.8	.0	.0	.0	.0	17.6	2.3	3.0	1.4	.1	2.2	.4	73.7
E	5.0	3.1	.8	.0	.0	.0	.0	8.9	3.8	2.6	1.5	.1	1.8	.0	81.9
SE	2.0	1.8	.4	.0	.0	.0	*	4.3	2.8	2.1	.6	*	.8	.1	89.4
S	1.7	1.8	.6	.0	.0	.0	*	4.1	3.7	2.5	.3	*	.4	.1	89.1
SW	3.1	2.2	.8	.0	.0	.0	*	6.1	3.6	3.4	.5	*	.6	.1	86.0
W	4.7	3.2	1.1	.0	.0	.0	.1	9.1	3.5	4.3	2.0	*	1.5	*	79.9
NW	5.8	5.4	2.0	.0	.0	.0	.0	13.3	3.7	4.0	1.7	.3	2.0	.3	75.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	1.3	.8	.0	.0	.0	.0	3.2	3.4	2.8	3.9	.3	2.0	.1	84.4
TOT PCT	2.4	2.0	.7	.0	.0	.0	*	5.0	3.4	2.8	.8	*	.8	.1	87.3
TOT OBS:	36744														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WO PCPN	FGG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	2.3	2.1	.9	.0	.0	.0	.0	5.2	3.8	5.8	.8	*	.8	.1	83.9
06009	3.2	2.5	.7	.0	.0	.0	*	6.3	4.0	3.9	1.1	.1	.6	.1	84.5
12015	2.3	1.9	.5	.0	.0	.0	*	4.7	3.4	.5	.8	.0	1.0	.1	89.7
18021	2.0	1.7	.7	.0	.0	.0	*	4.3	2.7	1.4	.7	*	.9	.2	89.9
TOT PCT	2.4	2.0	.7	.0	.0	.0	*	5.1	3.5	2.8	.9	*	.9	.1	87.1
TOT OBS:	38297														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.7	.1	*	.0	.0		1.1	6.1	.7	1.1	1.3	1.9	1.5	.6	.8	.7	
NE	.3	.7	.2	*	.0	.0		1.2	6.6	.8	1.4	1.2	2.6	1.6	1.1	.7	.7	
E	.5	1.3	.3	*	.0	.0		2.1	6.8	1.9	2.1	2.1	2.9	2.4	2.1	1.5	1.9	
SE	1.2	10.4	4.0	.1	.0	.0		15.7	8.4	16.7	11.1	17.7	13.1	16.8	12.2	18.3	12.9	
S	2.8	26.3	10.6	.3	.0	.0		40.0	8.6	40.8	33.7	43.3	35.4	39.7	36.3	46.0	37.4	
SW	2.1	18.1	5.1	.2	.0	.0		25.5	8.2	25.7	31.4	21.9	26.2	22.8	31.6	22.7	31.2	
W	1.2	6.5	1.1	*	.0	.0		8.8	7.3	8.2	13.6	6.0	11.2	8.5	11.8	6.3	10.9	
NW	.4	1.5	.2	*	.0	.0		2.1	6.5	1.5	2.1	1.9	3.5	2.9	1.7	1.4	1.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4							3.4	.0	3.8	3.5	4.5	3.1	3.8	2.7	2.3	2.6	
TOT OBS							67733		8.0		12906	4848	9747	5952	14175	4862	9411	5832
TOT PCT	12.1	65.6	21.6	.6	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.7	.3	*	.0	.0		1.1	6.1	.8	1.5	1.3	.8	
NE	.7	.4	.1	.0	.0		1.2	6.6	.9	1.8	1.5	.7	
E	1.2	.8	.1	.0	.0		2.1	6.8	1.9	2.4	2.3	1.7	
SE	5.5	9.6	.6	.0	.0		15.7	8.4	13.2	16.0	15.6	16.2	
S	13.1	25.1	1.8	.0	.0		40.0	8.6	38.8	40.3	38.8	42.7	
SW	10.0	14.6	.9	.0	.0		25.5	8.2	27.3	23.5	25.0	26.0	
W	4.6	4.1	.1	.0	.0		8.8	7.3	9.6	8.0	9.3	8.1	
NW	1.3	.8	.0	.0	.0		2.1	6.5	1.6	2.5	2.6	1.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.4						3.4	.0	3.8	4.0	3.5	2.4	
TOT OBS						67733		8.0	17754	15699	19037	15243	
TOT PCT	40.6	55.7	3.6	.1	*		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.8	8.4	66.3	20.9	.6	*		.0	8.0	100.0	17754
06009	4.0	8.9	66.6	19.9	.6	*		.0	7.8	100.0	15699
12015	3.5	9.5	64.4	21.9	.6	*		.0	8.0	100.0	19037
18021	2.4	7.8	65.2	24.1	.6	*		.0	8.3	100.0	15243
TOT									8.0		67733
PCT	3.4	8.7	65.6	21.6	.6	*		.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.4	.4		5.3
NE	.2	.1	.3	.4		5.3
E	.4	.3	.6	.5		4.8
SE	5.0	4.6	6.0	3.1		4.4
S	8.6	10.7	17.2	10.0		4.9
SW	3.7	4.6	7.5	4.5		5.1
W	1.1	1.0	2.1	1.3		5.3
NW	.3	.3	.6	.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	1.1	.6		4.2
TOT OBS					31041	4.9
TOT PCT	20.7	22.5	35.6	21.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 5/8 ANY HGT	TOTAL OBS
N	*	*	*	.1	.2	.1	.1	*	*	*	.5	
NE	*	*	*	.1	.1	.1	.1	*	*	*	.5	
E	*	.0	*	.1	.2	.2	.1	*	*	*	1.1	
SE	*	*	.2	1.0	2.5	1.5	.6	.1	.1	.1	12.5	
S	.1	.1	.5	3.3	7.7	4.9	1.6	.5	.2	.4	27.2	
SW	*	*	.2	1.4	2.9	2.3	.7	.2	.1	.2	12.1	
W	*	*	.1	.3	.7	.6	.1	.1	*	.1	3.5	
NW	*	*	*	.1	.2	.2	*	*	*	.1	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	.1	.4	.3	.1	*	*	.1	2.3	
TOT OBS												31041
TOT PCT	.3	.2	1.1	6.6	14.9	10.3	3.4	1.0	.5	1.1	60.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	2.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3500	4.8	5.8	5.9	5.9	5.9	5.9	6.0	6.0
= OR >2000	13.0	15.7	16.1	16.1	16.2	16.2	16.2	16.2
= OR >1000	24.9	30.0	30.8	30.9	31.0	31.0	31.0	31.0
= OR >600	29.8	36.2	37.3	37.5	37.5	37.5	37.5	37.6
= OR >300	30.4	37.2	38.4	38.6	38.6	38.6	38.7	38.7
= OR >150	30.5	37.3	38.5	38.7	38.8	38.8	38.8	38.8
= OR >0	30.6	37.5	38.7	39.0	39.0	39.1	39.1	39.1

TOTAL NUMBER OF OBS: 32110

PCT FREQ NH < 5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.1	9.4	14.7	15.4	12.8	8.1	9.2	8.1	14.0	.2	33899

PERIOD: (PRIMARY) 1924-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	.0	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.2	
1/2<1	PCP	.0	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1<2	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	*	*	*	*	*	.1	*	*	.0	*	.3	
	TOT %	*	*	*	.1	.1	.1	*	*	.0	*	.4	
2<5	PCP	*	*	*	.1	.2	.1	.1	*	.0	*	.6	
	NO PCP	.1	.1	*	.1	.3	.2	.1	.1	.0	.2	1.2	
	TOT %	.1	.1	.1	.2	.5	.4	.2	.1	.0	.2	1.8	
5<10	PCP	.1	.1	.1	.4	.8	.6	.2	.1	.0	*	2.2	
	NO PCP	.2	.2	.4	2.5	5.3	3.3	1.4	.4	.0	.6	14.5	
	TOT %	.3	.3	.5	2.8	6.1	3.9	1.6	.5	.0	.7	16.7	
10+	PCP	*	*	.1	.4	.8	.4	.1	.1	.0	*	1.9	
	NO PCP	.7	.6	1.3	15.2	37.7	15.9	4.0	1.1	.0	2.5	78.8	
	TOT %	.7	.6	1.4	15.5	38.5	16.3	4.1	1.2	.0	2.5	80.7	
TOT OBS													36683
TOT PCT		1.1	1.1	2.0	19.7	45.2	20.7	6.1	1.8	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	*	*	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	.0	*	*	*	*	*	*	*	.0	*	*	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	.0	*	*	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	.0	.0	*	.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	.0	*	.0	*	.2	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	.1	.1	*	.0	*	.3	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	.0	*	*	*	*	*	.0	.0	.0	*	*	
	TOT %	*	*	*	.1	.1	.1	.1	*	.0	*	.5	
2<5	0-3	*	*	*	*	.1	.1	*	*	.0	.2	.5	
	4-10	.1	*	*	.1	.4	.2	.1	.1	.0	*	1.3	
	11-21	*	*	*	.1	.2	.1	*	*	.0	*	.5	
	22+	*	*	*	*	*	*	.0	.0	.0	*	*	
	TOT %	.1	.1	.1	.2	.7	.6	.3	.1	.0	.2	2.4	
5<10	0-3	.1	.1	.1	.3	.5	.4	.2	.1	.0	.7	2.5	
	4-10	.2	.2	.3	1.6	3.7	3.0	1.2	.3	.0	*	10.5	
	11-21	*	*	.1	.6	1.7	1.0	.3	.1	.0	*	3.9	
	22+	*	*	*	*	.1	*	*	*	.0	*	.1	
	TOT %	.3	.3	.5	2.5	6.0	4.5	1.7	.5	.0	.7	17.1	
10+	0-3	.2	.1	.3	.9	2.2	1.6	.7	.2	.0	2.6	8.7	
	4-10	.4	.4	.8	9.3	24.1	13.4	3.7	.9	.0	*	53.0	
	11-21	.1	.1	.2	3.8	9.4	3.3	.7	.1	.0	*	17.6	
	22+	*	*	*	*	.1	*	*	*	.0	*	.3	
	TOT %	.7	.6	1.3	14.0	35.8	18.3	5.1	1.3	.0	2.6	79.6	
TOT OBS													49718
TOT PCT		1.1	1.1	1.9	16.9	42.7	23.6	7.2	1.9	.0	3.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.3	.1	.9	6.0	13.3	8.7	2.9	.8	.4	1.1	34.5	65.5	7363
06009	.4	.2	1.5	7.9	17.1	11.5	3.7	1.2	.4	1.2	45.1	54.9	8233
12015	.2	.2	.9	5.8	14.0	10.2	3.4	1.1	.4	1.1	37.4	62.6	9216
18021	.3	.1	1.1	5.9	13.3	9.3	3.0	.8	.5	1.1	35.3	64.7	8286
TOT PCT	.3	.2	1.1	6.4	14.4	10.0	3.3	1.0	.4	1.1	38.2	61.8	33098 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.3	.5	2.5	19.1	77.5	12714
06009	.3	.3	.6	2.8	19.0	76.9	12463
12015	.1	.3	.6	2.1	15.2	81.6	14043
18021	.1	.2	.4	2.3	15.4	81.6	12058
TOT PCT	.2	.3	.5	2.4	17.2	79.5	51278 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.4	1.6	9.0	27.4	63.6	7060
06009	.4	2.3	12.3	34.7	53.1	8009
12015	.2	1.5	8.9	29.9	61.1	8966
18021	.3	1.6	8.9	27.8	63.3	8075
TOT PCT	.3	1.8	9.8	30.0	60.2	32110 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/79	.0	.0	.0	*	*	.0	.0	.0	*	*
90/94	.0	.0	*	*	.1	.1	*	.0	.3	*
85/89	.0	.0	*	*	.5	2.7	.8	.2	4.2	*
80/84	.0	.0	*	.1	1.0	15.7	24.3	4.0	45.0	*
75/79	.0	.0	.0	*	.4	8.7	22.9	8.2	40.3	*
70/74	.0	.0	.0	.1	.9	4.9	4.1	.9	9.9	*
65/69	.0	.0	.0	.0	.0	*	.1	.2	.3	*
TOT PCT	.0	.0	*	.2	2.0	28.0	53.0	16.7	30784	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
*	*	*	*	.1	*	*	*	.0	*
*	*	.1	.8	1.6	1.0	.4	.1	.0	.2
.5	.5	.9	7.8	18.4	10.8	3.6	.9	.0	1.7
.4	.4	.6	7.0	21.5	7.6	1.5	.6	.0	.6
*	.1	.2	3.3	4.6	1.0	.2	.1	.0	.3
.0	.0	*	.2	.1	*	.0	*	.0	.1
1.0	1.0	1.9	19.1	46.3	20.5	5.7	1.6	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	83	81	79	75	73	63	78.5	18025
06009	96	83	82	79	74	72	61	78.4	15973
12015	97	88	85	81	76	74	63	80.7	19204
18021	95	85	83	80	76	73	64	79.5	15377
TOT	97	86	83	79	75	73	61	79.3	68579

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	.7	19.1	58.7	21.4	85	7800
06009	.0	.1	.9	19.5	55.9	23.6	85	7975
12015	.0	.4	4.5	41.0	44.0	10.1	80	8571
18021	.0	.3	1.8	30.8	53.6	13.5	82	7722
TOT	0	75	656	8980	16924	5433	83	32068

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	3	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	*	18	*	*
11/13	.0	.0	.0	.0	*	*	*	*	*	52	*	.1
9/10	.0	.0	.0	.0	*	.1	.1	.1	*	102	*	.3
7/8	.0	.0	.0	*	.1	.2	.1	.1	*	213	*	.6
6	.0	.0	.0	*	.1	.1	.2	.1	*	187	.0	.5
5	.0	.0	*	.1	.3	.4	.4	.1	*	477	*	1.3
4	.0	.0	*	.2	.5	.6	.5	.1	.0	682	*	1.9
3	.0	.0	.1	.4	.7	.8	.5	*	.0	897	*	2.5
2	.0	*	.2	1.0	1.5	2.2	.8	*	.0	1999	.1	5.6
1	.0	*	.5	1.9	3.0	3.6	.8	*	.0	3423	.1	9.7
0	.0	*	.9	3.0	5.6	7.2	.7	*	.0	6130	.2	17.3
-1	.0	*	.6	3.3	8.0	8.2	.4	*	.0	7160	.1	20.3
-2	.0	*	.4	2.4	7.0	6.1	.1	.0	.0	5611	.1	15.9
-3	.0	.0	.2	1.9	4.8	2.4	.1	.0	.0	3272	.1	9.3
-4	*	*	.2	1.3	3.0	1.7	*	.0	.0	2198	.1	6.2
-5	*	*	.1	.9	2.0	.8	*	.0	.0	1349	*	3.8
-6	.0	*	.1	.4	.7	.2	.0	.0	.0	472	*	1.3
-7/-8	.0	*	.1	.5	.6	.2	*	.0	.0	491	*	1.4
-9/-10	.0	*	.1	.2	.2	*	.0	.0	.0	183	*	.5
-11/-13	.0	*	.1	.1	*	*	.0	.0	.0	69	.0	.2
-14/-16	*	*	*	*	.0	.0	.0	.0	.0	23	.0	.1
-17/-19	*	*	.0	.0	.0	.0	.0	.0	.0	5	*	*
-20/-22	*	.0	.0	.0	.0	.0	.0	.0	.0	2	*	*
TOTAL										35018		
PCT	*	.2	3.4	17.8	38.2	34.9	4.8	.5	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	*	.0	.0	.0	.3	.1	.2	*	.0	.0	.0	.3
1-2	.1	.4	*	.0	.0	.0	.5	.1	.3	.1	.0	.0	.0	.5
3-4	.0	.1	*	*	.0	.0	.1	.0	.1	.1	*	.0	.0	.2
5-6	.0	*	*	.0	.0	.0	*	*	*	*	.0	.0	.0	.1
7	.0	.0	*	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.1	*	.0	.0	1.0	.2	.6	.2	*	.0	.0	1.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	*	.0	.0	.0	.4	.4	1.3	.1	.0	.0	.0	1.8
1-2	.1	.7	.1	.0	.0	.0	.9	.4	6.6	1.5	.0	.0	.0	8.5
3-4	*	.2	.1	*	.0	.0	.3	*	2.8	2.5	*	.0	.0	5.4
5-6	.0	*	*	*	.0	.0	.1	*	.3	1.2	*	.0	.0	1.5
7	.0	*	*	*	.0	.0	*	.0	.1	.3	*	.0	.0	.4
8-9	.0	.0	*	*	.0	.0	*	.0	*	*	*	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*
12	.0	.0	*	.0	.0	.0	*	.0	*	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	.3	*	*	.0	1.7	.9	11.1	5.6	.1	.0	.0	17.7

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.5	.2	.0	.0	.0	4.8	.8	2.5	.1	.0	.0	.0	3.5
1-2	.9	18.4	4.1	.0	.0	.0	23.4	.5	8.6	1.5	.0	.0	.0	10.7
3-4	.1	7.2	6.6	.1	.0	.0	14.0	.*	2.5	1.6	.*	.0	.0	4.2
5-6	.*	1.1	3.2	.1	.0	.0	4.3	.0	.4	.8	.*	.0	.0	1.3
7	.0	.2	.6	.1	.0	.0	.9	.*	.1	.1	.*	.0	.0	.2
8-9	.0	.*	.1	.*	.0	.0	.1	.*	.*	.*	.*	.0	.0	.*
10-11	.0	.*	.*	.*	.0	.0	.*	.0	.*	.*	.*	.0	.0	.*
12	.0	.*	.*	.0	.0	.0	.*	.0	.*	.0	.0	.0	.0	.*
13-16	.0	.*	.*	.0	.0	.0	.*	.0	.*	.0	.0	.0	.0	.*
17-19	.0	.*	.0	.0	.0	.0	.*	.0	.*	.0	.0	.0	.0	.*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	30.4	14.8	.3	.0	.0	47.6	1.4	14.2	4.3	.1	.0	.0	19.9

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	1.0	.*	.0	.0	.0	1.5	.2	.4	.*	.0	.0	.0	.5	96.1
1-2	.2	2.2	.4	.0	.0	.0	2.9	.1	.7	.1	.0	.0	.0	.9	
3-4	.*	.6	.3	.*	.0	.0	.9	.0	.1	.*	.0	.0	.0	.2	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.*	.*	.0	.0	.0	.*	
7	.*	.*	.*	.0	.0	.0	.1	.0	.0	.*	.*	.0	.0	.*	
8-9	.0	.*	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0	
12	.0	.*	.0	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.0	.0	.*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	3.9	.8	.*	.0	.0	5.5	.3	1.2	.2	.*	.0	.0	1.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.4	9.3	.5	.0	.0	.0	18.2	23732
1-2	2.8	37.1	7.7	.0	.0	.0	47.8	
3-4	.2	13.3	11.1	.1	.0	.0	24.7	
5-6	.*	1.9	5.3	.2	.0	.0	7.3	
7	.*	.3	1.0	.1	.0	.0	1.5	
8-9	.*	.*	.1	.*	.0	.0	.2	
10-11	.0	.*	.1	.*	.0	.0	.1	
12	.0	.*	.*	.0	.0	.0	.*	
13-16	.0	.*	.*	.*	.0	.0	.*	
17-19	.0	.*	.*	.0	.0	.0	.*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.4	62.3	25.8	.5	.*	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	15.6	13.2	5.5	1.4	.3	.1	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	11401	3
6-7	.*	2.5	8.5	6.8	3.1	.8	.3	.1	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6477	4
8-9	.*	.9	2.8	3.3	1.8	.5	.2	.1	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2850	5
10-11	.0	1.4	1.4	.9	.7	.3	.1	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1416	4
12-13	.0	.0	1.7	.7	.2	.1	.1	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	811	4
>13	.0	.0	.0	.4	.2	.1	.*	.0	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	6
INDET	4.9	6.4	5.8	2.4	1.0	.2	.*	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6118	2
TOTAL																				29287	3
PCT	7.7	26.8	33.4	20.0	8.5	2.3	.9	.2	.2	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1859-1976

TABLE 20

AREA 0011 IVORY COAST
2.8N 6.2W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
91/92	*	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	17	*
89/90	.1	.1	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	82	.1
87/88	1.1	.7	1.8	3.1	7.2	.2	.1	*	.0	.1	.3	.4	570	.9
85/86	3.8	6.2	12.2	17.8	11.9	2.1	.4	*	.1	.3	1.8	2.7	3394	5.2
83/84	21.8	26.5	34.6	39.5	35.1	10.6	2.0	.4	.6	1.7	9.1	17.4	11248	17.2
81/82	46.7	45.0	37.2	31.3	34.1	38.4	15.6	3.5	4.2	12.2	38.8	47.6	19574	29.9
79/80	19.0	15.6	9.6	6.0	10.5	22.7	26.4	14.0	12.8	26.2	26.4	21.1	11365	17.3
77/78	5.7	4.1	2.8	1.1	4.3	9.5	21.7	25.2	26.9	28.6	15.4	8.0	8166	12.5
75/76	1.1	1.2	1.0	.4	1.2	6.9	12.6	20.9	26.6	20.1	6.8	2.2	5329	8.1
73/74	.4	.4	.2	.1	.3	6.0	9.8	20.4	20.0	8.8	1.2	.5	3583	5.5
71/72	.1	.1	.1	*	*	2.9	6.4	10.9	6.9	1.7	.2	.1	1541	2.4
69/70	.1	.0	*	.0	.0	.5	4.0	4.1	1.6	.3	.0	.0	554	.8
67/68	*	.0	.0	.0	.0	.1	1.0	.6	.3	.1	.1	.0	113	.2
65/66	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	13	*
63/64	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	2	*
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	5714	5246	6013	5855	5628	4964	5283	5330	5139	5341	5423	5617	65553	100.0
MEAN	81.4	81.7	82.4	83.1	82.3	79.7	77.3	75.6	76.0	77.7	80.1	81.1	79.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1010	1011	1011	1011	1009	1010	1011	1011	4271
FEB	1011	1010	1010	1011	1011	1009	1009	1011	1011	4117
MAR	1011	1009	1010	1011	1011	1009	1009	1010	1010	4455
APR	1011	1009	1010	1011	1012	1009	1009	1010	1011	4589
MAY	1012	1011	1011	1012	1013	1010	1011	1012	1012	4253
JUN	1014	1013	1013	1014	1014	1012	1013	1014	1014	3932
JUL	1015	1014	1014	1015	1016	1014	1014	1014	1015	4047
AUG	1015	1014	1014	1015	1016	1013	1013	1014	1015	4203
SEP	1014	1013	1014	1014	1015	1012	1013	1013	1014	3814
OCT	1013	1012	1012	1013	1014	1011	1012	1012	1013	3934
NOV	1012	1010	1011	1012	1012	1010	1011	1011	1011	4107
DEC	1012	1010	1011	1012	1012	1009	1010	1011	1011	3993
ANN	1013	1011	1012	1013	1013	1011	1011	1012	1012	49715
OBS	9964	2586	9006	3017	11020	2575	8646	2901		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1004	1007	1009	1011	1012	1014	1016	1019
FEB	1001	1003	1007	1009	1011	1012	1014	1016	1019
MAR	1001	1003	1007	1009	1010	1012	1014	1016	1020
APR	1001	1004	1007	1009	1011	1012	1014	1016	1020
MAY	1002	1006	1008	1010	1012	1013	1015	1016	1020
JUN	1003	1007	1010	1012	1014	1015	1017	1019	1021
JUL	1004	1008	1011	1014	1015	1016	1018	1019	1022
AUG	1005	1010	1012	1013	1014	1016	1018	1019	1022
SEP	1005	1008	1010	1013	1014	1015	1017	1018	1022
OCT	1004	1008	1009	1011	1013	1014	1016	1017	1021
NOV	1003	1004	1008	1010	1012	1013	1014	1016	1020
DEC	1001	1005	1008	1010	1011	1012	1014	1017	1020

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1860-1976

JANUARY

AREA 0012 ACCRA
3.3N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	3.0	26.3	.0	19.4	4.7
NE	6.1	5.7	.5	.0	.0	.0	.0	12.3	3.8	8.5	16.0	.0	15.6	.0
E	1.6	.0	1.6	.0	.0	.0	.0	3.1	4.2	1.6	16.1	.0	36.5	.0
SE	.6	2.3	.0	.0	.0	.0	.0	2.9	3.5	2.9	5.7	.0	5.3	1.6
S	1.3	1.4	.2	.0	.0	.0	.0	2.8	4.3	3.0	1.2	.0	2.4	.0
SW	1.0	1.7	.4	.0	.0	.0	.0	3.2	2.2	3.1	3.7	.0	4.3	.4
W	1.5	.2	.0	.0	.0	.0	.0	1.7	1.3	2.9	5.7	.0	6.0	.8
NW	3.6	.0	1.4	.0	.0	.0	.0	5.0	.4	5.4	12.5	.0	8.6	3.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	6.2	10.3	.0	7.2	2.1
TOT PCT	1.4	1.4	.3	.0	.0	.0	.0	3.1	2.6	3.4	5.7	.0	6.2	.8
TOT OBS:	1655													78.5

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	.9	.9	.4	.0	.0	.0	.0	2.1	2.8	7.3	5.8	.0	7.7	.4
06009	1.7	1.9	.5	.0	.0	.0	.0	4.1	2.4	4.1	5.3	.0	5.0	1.9
12015	1.9	1.7	.0	.0	.0	.0	.0	3.6	2.8	.0	6.4	.0	7.3	.9
18021	1.3	.8	.5	.0	.0	.0	.0	2.6	2.1	2.6	5.4	.0	5.4	1.0
TOT PCT	1.4	1.3	.3	.0	.0	.0	.0	3.1	2.5	3.5	5.7	.0	6.4	1.0
TOT OBS:	1740													78.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	1.0	2.1	.3	.1	.0	.0		3.5	6.1	1.9	3.6	3.7	8.8	5.7	2.6	1.5	1.7
NE	.7	2.3	.5	.*	.0	.0		3.5	6.7	2.7	6.5	1.7	8.8	4.6	2.3	1.7	2.0
E	1.1	1.9	.4	.*	.0	.0		3.4	6.0	3.6	4.2	1.6	3.8	2.8	6.4	1.6	4.4
SE	1.2	5.3	.6	.0	.0	.0		7.1	6.2	7.3	5.8	6.6	5.7	7.3	7.5	8.4	
S	3.0	18.6	3.4	.*	.0	.0		25.0	7.2	27.2	16.8	29.4	18.3	25.4	22.0	29.1	24.4
SW	3.6	23.7	3.8	.0	.0	.0		31.1	7.2	31.8	25.1	28.7	27.4	28.9	35.4	34.2	37.9
W	2.1	10.3	1.8	.0	.0	.0		14.2	6.8	13.3	19.7	13.7	15.2	14.2	14.9	13.4	10.9
NW	1.1	3.3	.4	.0	.0	.0		4.8	6.0	3.5	9.0	4.9	5.9	5.5	4.1	4.1	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.5							7.5	.0	8.6	9.4	9.9	6.1	5.7	4.8	7.0	7.4
TOT OBS	628	1990	325	4	0	0		2947	6.4	638	286	355	212	563	252	345	296
TOT PCT	21.3	67.5	11.0	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.3	1.1	.1	.0	.0		3.5	6.1	2.4	5.6	4.8	1.6
NE	2.0	1.4	.1	.0	.0		3.5	6.7	3.9	4.4	3.9	1.8
E	2.3	1.0	.1	.0	.0		3.4	6.0	3.8	2.4	4.0	2.9
SE	4.6	2.5	.*	.0	.0		7.1	6.2	6.8	6.3	7.4	7.9
S	12.0	12.6	.3	.0	.0		25.0	7.2	24.0	25.2	24.3	27.0
SW	14.6	16.2	.3	.0	.0		31.1	7.2	29.7	28.2	30.9	35.9
W	8.1	5.9	.2	.0	.0		14.2	6.8	15.3	14.2	14.4	12.2
NW	3.2	1.6	.*	.0	.0		4.8	6.0	5.2	5.2	5.1	3.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.5						7.5	.0	8.9	8.5	5.4	7.2
TOT OBS	1666	1248	33	0	0		2947	6.4	924	567	815	641
TOT PCT	56.5	42.3	1.1	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1860-1976

JANUARY

AREA 0012 ACCRA
3.3N .3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	8.9	14.0	66.6	10.6	.0	.0	.0	6.2	100.0	924
06009	8.5	14.5	66.1	10.8	.2	.0	.0	6.2	100.0	567
12015	5.4	14.1	67.7	12.5	.2	.0	.0	6.6	100.0	815
18021	7.2	12.8	69.9	10.0	.2	.0	.0	6.5	100.0	641
TOT	220	408	1990	325	4	0	0	6.4		2947
PCT	7.5	13.8	67.5	11.0	.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	2.2	.1	.7	.4		2.6
NE	.8	.2	.5	.8		4.6
E	.7	.2	.3	.5		4.1
SE	2.0	1.8	2.4	1.4		4.5
S	7.4	6.8	12.6	5.4		4.7
SW	8.5	6.5	10.5	4.7		4.3
W	3.4	2.1	5.0	2.5		4.5
NW	.4	.4	1.6	1.3		5.9
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.1	1.9	.6		3.4
TOT OBS	362	247	462	229	1300	4.4
TOT PCT	27.8	19.0	35.5	17.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.1	.1	.1	.1	.0	.1	.2	2.7	
NE	.1	.0	.1	.2	.2	.2	*	.0	.0	.3	1.3	
E	.0	.0	.0	.0	.2	.2	.2	.0	.0	.1	1.1	
SE	.0	.0	.0	.4	.8	.7	*	.0	.0	.0	5.6	
S	.0	.0	.5	1.8	3.4	3.3	.9	.3	.3	.7	21.1	
SW	.1	.0	.2	1.5	2.0	2.7	.7	.4	*	.3	22.3	
W	.2	.0	.0	.7	.9	1.6	.4	.2	.1	.6	8.4	
NW	.2	.0	.0	.1	.4	.3	*	.1	.3	.2	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.4	.5	.1	.0	.2	.0	4.8	
TOT OBS	7	0	9	63	110	126	30	13	12	30	900	1300
TOT PCT	.5	.0	.7	4.8	8.5	9.7	2.3	1.0	.9	2.3	69.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	3.0	3.3	3.3	3.3	3.3	3.3	3.3
>5000	2.2	4.0	4.2	4.2	4.2	4.2	4.2	4.2
>3500	4.1	6.3	6.7	6.7	6.7	6.7	6.7	6.7
>2000	10.9	15.4	16.1	16.1	16.1	16.1	16.1	16.1
>1000	16.8	23.0	24.2	24.3	24.3	24.3	24.4	24.4
>600	19.9	27.5	28.8	29.1	29.1	29.1	29.2	29.2
>300	20.3	28.0	29.5	29.8	29.8	29.8	29.8	29.8
>150	20.3	28.0	29.5	29.8	29.8	29.8	29.8	29.8
>0	20.3	28.1	29.6	30.0	30.0	30.3	30.4	30.4
TOTAL	274	379	400	405	405	409	411	411

TOTAL NUMBER OF OBS: 1351

PCT FREQ NH <5/8: 69.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	20.1	8.5	14.9	15.2	10.6	7.8	8.3	5.7	8.3	.6	1428

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.2	*	.3	*	.0	.1	.1	.1	.0	.1	1.0	
TOT %	.2	*	.3	*	.0	.1	.1	.1	.0	.1	1.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.5	.5	.5	.4	.3	.8	.3	.3	.0	.1	3.7	
TOT %	.5	.5	.5	.4	.3	.8	.3	.3	.0	.1	3.7	
1<2	PCP	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	
NO PCP	.2	.3	.6	.3	.4	.9	.5	.1	.0	.2	3.5	
TOT %	.3	.3	.6	.3	.4	.9	.5	.2	.0	.2	3.7	
2<5	PCP	.0	.0	.0	.1	.2	*	*	.0	.0	.3	
NO PCP	.6	.4	.2	.4	.2	.7	1.0	.3	.0	1.0	4.7	
TOT %	.6	.4	.2	.4	.3	.9	1.0	.4	.0	1.0	5.0	
5<10	PCP	.0	.2	.1	.2	.3	.1	.1	.0	.1	1.2	
NO PCP	1.2	1.0	.5	1.2	4.2	5.8	4.3	1.5	.0	1.9	21.6	
TOT %	1.2	1.2	.6	1.4	4.4	6.1	4.4	1.7	.0	1.9	22.8	
10+	PCP	.0	.1	.0	.1	.5	.1	.0	.0	.0	1.3	
NO PCP	.7	.7	.7	2.8	21.5	6.8	1.5	.0	.0	2.5	62.5	
TOT %	.7	.8	.7	5.2	23.4	22.0	6.8	1.5	.0	2.5	63.8	
TOT OBS												
TOT PCT	3.5	3.2	2.9	7.7	28.8	30.6	13.2	4.2	.0	5.9	100.0	1650

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	*	.0	.0	.8	.9	
	4-10	.2	*	.2	.0	*	*	*	.1	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	*	.2	*	*	*	.1	.1	.0	.8	1.5	
1/2<1	0-3	*	.1	*	*	*	*	.1	*	.0	*	.4	
	4-10	.3	.2	.3	.2	.2	.5	.1	.2	.0		1.9	
	11-21	.1	.1	*	*	*	.1	*	*	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.4	.4	.3	.3	.6	.2	.3	.0	*	2.8	
1<2	0-3	*	.1	.2	.1	.2	.2	.1	*	.0	.3	1.2	
	4-10	.1	.2	.2	.2	.2	.4	.3	.2	.0		1.7	
	11-21	*	*	.1	.0	.2	.0	.1	.0	.0		.4	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.2	.3	.6	.3	.3	.8	.4	.2	.0	.3	3.4	
2<5	0-3	.3	.1	.1	.1	.2	.2	.3	.2	.0	1.5	3.0	
	4-10	.3	.2	.1	.2	.3	.7	.7	.3	.0		2.8	
	11-21	.1	*	.0	*	.1	.2	.1	*	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.3	.2	.3	.6	1.1	1.1	.5	.0	1.5	6.4	
5<10	0-3	.4	.2	.3	.5	1.0	1.0	.5	.4	.0	2.2	6.5	
	4-10	.7	.7	.4	.9	3.6	5.9	3.5	1.3	.0	9.9	16.9	
	11-21	.1	.2	.1	.1	.7	.9	.5	.1	.0		2.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.1	1.1	.7	1.5	5.2	7.8	4.6	1.8	.0	2.2	26.0	
10+	0-3	.3	.2	.1	.6	1.8	2.3	1.1	.3	.0	2.9	9.6	
	4-10	.8	.5	.5	3.8	15.8	15.7	4.6	1.2	.0		42.8	
	11-21	*	*	.1	.4	3.0	2.5	1.2	.1	.0		7.4	
	22+	.0	.0	*	.0	*	.0	.0	.0	.0		.1	
	TOT %	1.2	.8	.8	4.8	20.7	20.4	6.8	1.6	.0	2.9	60.0	
TOT OBS													2260
TOT PCT		3.7	2.9	2.9	7.2	27.1	30.7	13.3	4.5	.0	7.8	100.0	

JANUARY

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1860-1976AREA 0012 ACCRA
3.3N .3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.6	3.0	5.0	5.0	.3	1.2	.6	1.2	16.9	83.1	337
06009	1.4	.0	1.1	7.0	9.0	10.4	3.9	.6	.6	2.0	36.0	64.0	356
12015	.3	.0	.3	4.3	9.3	10.6	3.2	.8	1.9	2.7	33.2	66.8	376
18021	.6	.0	.6	4.5	8.1	10.2	2.1	1.2	.6	3.0	30.8	69.2	334
TOT	8	0	9	66	111	128	34	13	13	31	413	990	1403
PCT	.6	.0	.6	4.7	7.9	9.1	2.4	.9	.9	2.2	29.4	70.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.4	2.7	4.2	6.5	29.0	56.1	692
06009	1.8	3.0	2.4	7.1	24.1	61.5	493
12015	.6	3.1	3.6	7.4	26.9	58.4	639
18021	1.9	2.3	3.4	6.3	24.5	61.6	523
TOT	33	66	82	160	620	1386	2347
PCT	1.4	2.8	3.5	6.8	26.4	59.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.2	8.9	13.9	77.2	316
06009	1.4	4.9	17.1	25.8	57.1	345
12015	.3	1.1	11.6	28.2	60.2	362
18021	.6	1.8	12.2	23.2	64.6	328
TOT	8	34	169	311	871	1351
PCT	.6	2.5	12.5	23.0	64.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.1	.0	4	.3
85/89	.0	.0	.0	.0	.3	2.7	.7	.0	48	3.7
80/84	.0	.0	.1	.4	1.2	15.9	51.6	10.3	1022	79.4
75/79	.0	.0	.0	.0	.2	1.5	8.2	5.9	203	15.8
70/74	.0	.0	.0	.0	.1	.2	.2	.4	10	.8
TOTAL	0	0	1	5	26	260	781	214	1287	100.0
PCT	.0	.0	.1	.4	2.0	20.2	60.7	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.2	.0	.0	.0	.0
.0	.1	.0	.2	1.1	1.4	.4	.2	.0	.3
1.5	1.3	1.4	6.5	26.2	25.5	9.6	2.5	.0	4.8
.7	.5	.4	.9	4.7	5.1	1.9	1.1	.0	.5
.1	.4	.1	.1	.2	.0	.0	.0	.0	.0
2.3	2.3	1.9	7.7	32.2	32.2	11.9	3.8	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	84	83	81	77	73	70	80.2	931
06009	90	85	83	81	76	70	68	80.1	565
12015	91	88	86	82	78	75	72	82.3	831
18021	91	86	84	82	78	75	73	81.4	648
TOT	91	87	85	81	77	74	68	81.0	2975

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	1.4	10.2	64.4	23.8	86	362
06009	.0	.0	1.8	16.2	61.9	20.1	84	328
12015	.0	1.4	2.8	35.8	48.3	11.6	81	352
18021	.0	.3	3.2	18.8	67.1	10.5	83	313
TOT	0	7	31	275	816	226	84	1355

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1860-1976

JANUARY

AREA 0012 ACCRA
3.3N .3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.1	.1	.1	6	.1	.3
7/8	.0	.0	.0	.0	.1	.1	.0	2	.0	.1
6	.0	.0	.0	.0	.3	.1	.0	6	.1	.3
5	.0	.0	.0	.1	.5	.6	.2	21	.1	1.2
4	.0	.0	.1	.4	.9	.4	.0	29	.3	1.5
3	.0	.0	.0	.4	1.1	.8	.0	35	.1	2.1
2	.0	.0	.1	.9	3.3	1.1	.0	85	.2	5.2
1	.0	.0	.0	1.8	6.9	.6	.0	148	1.1	8.3
0	.0	.0	.1	4.1	16.8	.4	.1	341	1.1	20.4
-1	.0	.0	.2	6.1	15.0	.1	.0	337	.8	20.5
-2	.0	.0	.3	5.7	8.6	.1	.0	234	.7	14.1
-3	.0	.0	.1	4.2	4.2	.0	.0	135	.4	8.1
-4	.0	.0	.3	3.0	2.8	.1	.0	96	.2	5.9
-5	.0	.0	.3	2.2	1.3	.0	.0	60	.4	3.3
-6	.0	.0	.3	.6	.1	.0	.0	14	.0	.9
-7/-8	.0	.1	.5	.8	.2	.0	.0	24	.1	1.4
-9/-10	.1	.1	.1	.1	.0	.0	.0	6	.1	.3
-11/-13	.1	.1	.1	.0	.0	.0	.0	4	.0	.3
-14/-16	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	4	37	479	986	70	6	1584	93	1491
PCT	.1	.3	2.3	30.2	62.2	4.4	.4	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.7	.0	.0	.0	.0	1.3	.2	.4	.0	.3	.0	.0	.6
1-2	.5	.9	.2	.0	.0	.0	1.5	.3	1.1	.*	.*	.0	.0	1.5
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.*	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.7	.2	.0	.0	.0	2.9	.5	1.6	.3	.0	.0	.0	2.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.2	1.7	.1	.0	.0	.0	1.9
1-2	.1	.6	.0	.0	.0	.0	.7	.4	3.9	.2	.0	.0	.0	4.5
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.7	.2	.0	.0	.0	1.0
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.*	.1	.0	.0	.0	.1
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.8	.1	.1	.0	.0	1.4	.6	6.3	.6	.0	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0012 ACCRA
3.3N .3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.7	3.9	.0	.0	.0	.0	5.7	2.5	6.0	.0	.0	.0	.0	8.5	
1-2	1.1	12.8	2.2	.0	.0	.0	16.1	.7	13.1	1.4	.0	.0	.0	15.2	
3-4	.0	4.7	1.5	.1	.0	.0	6.3	.1	3.7	2.1	.0	.0	.0	5.8	
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.2	.3	.0	.0	.0	.5	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	21.4	4.9	.1	.0	.0	29.3	3.2	23.0	3.9	.0	.0	.0	30.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.5	3.3	.0	.0	.0	.0	4.7	.4	1.2	.0	.0	.0	.0	1.6		
1-2	.9	5.1	1.2	.0	.0	.0	7.2	.1	2.0	.3	.0	.0	.0	2.4		
3-4	.2	.5	.5	.0	.0	.0	1.2	.0	.0	.3	.0	.0	.0	.3		
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	2.5	9.0	1.9	.0	.0	.0	13.4	.5	3.2	.6	.0	.0	.0	4.3	91.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.7	16.7	.1	.0	.0	.0	34.5	
1-2	4.3	38.6	5.2	.0	.0	.0	48.2	
3-4	.2	9.7	4.8	.1	.0	.0	14.8	
5-6	.0	.4	1.6	.0	.0	.0	2.0	
7	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	22.2	65.4	12.1	.2	.0	.0	100.0	1013

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	19.7	11.9	3.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	515	2
6-7	.1	4.6	6.2	3.0	1.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	4
8-9	.0	1.4	2.8	2.1	1.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	4
10-11	.0	2.5	.7	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	3
12-13	.0	.0	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	10.3	10.6	6.7	1.9	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	378	2
TOTAL	205	487	372	139	47	3	1	2	1	0	0	0	0	0	0	0	0	0	0	1257	3
PCT	16.3	38.7	29.6	11.1	3.7	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1880-1976

FEBRUARY

AREA 0012 ACCRA
3.3N .4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	4.1	.0	.0	.0	.0	.0	4.1	.0	12.3	21.9	.0	.0	.0	61.6
NE	8.6	.0	.0	.0	.0	.0	.0	8.6	.0	1.1	12.9	.0	4.3	.0	73.1
E	12.6	.0	.0	.0	.0	.0	.0	12.6	7.9	10.6	15.9	.0	.0	.0	58.3
SE	.3	.0	1.1	.0	.0	.0	.0	1.3	2.7	3.2	4.8	.0	1.1	.0	86.9
S	1.2	1.3	.2	.0	.0	.0	.0	2.7	2.5	4.1	2.6	.0	.8	.0	87.6
SW	.6	1.2	.4	.0	.0	.0	.0	2.1	1.6	2.8	1.3	.0	1.7	.0	90.4
W	.0	.4	.0	.0	.0	.0	.0	.4	.0	2.5	2.9	.0	4.1	.4	89.6
NW	6.9	.6	.0	.0	.0	.0	.0	7.5	.0	3.5	16.2	.0	6.9	2.3	65.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	1.4	1.4	.0	.0	.0	.0	4.1	.0	1.4	2.7	.0	5.4	.0	86.5
TOT PCT	1.3	1.1	.3	.0	.0	.0	.0	2.7	1.8	3.5	3.4	.0	2.0	.1	86.9
TOT OBS:	1522														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.5	1.7	.5	.0	.0	.0	.0	4.7	1.0	8.6	2.9	.0	1.7	.2	82.1
06009	1.9	.8	.5	.0	.0	.0	.0	3.2	1.3	3.0	3.8	.0	.5	.3	83.4
12015	.7	.7	.5	.0	.0	.0	.0	1.8	1.8	.5	4.3	.0	4.1	.0	87.7
18021	1.3	.8	.0	.0	.0	.0	.0	2.1	2.7	2.9	2.9	.0	1.6	.0	88.1
TOT PCT	1.6	1.0	.4	.0	.0	.0	.0	3.0	1.7	3.7	3.5	.0	2.1	.1	86.5
TOT OBS:	1593														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	.9	.3	.0	.0	.0	1.5	6.9	1.4	2.5	1.3	4.0	1.9	.0	.6	.8		
NE	.5	.7	.2	.0	.0	.0	1.4	6.0	.9	2.5	.4	2.6	2.2	1.5	.9	.8		
E	.7	1.4	.2	.0	*	.0	2.4	6.5	2.8	2.2	2.7	2.1	2.2	1.8	1.8	3.4		
SE	1.0	6.2	.6	.0	.0	.0	7.7	6.4	7.3	10.0	5.3	9.0	8.0	6.2	6.1	10.2		
S	3.4	19.7	4.0	.1	.0	.0	27.2	7.3	28.4	18.1	33.1	18.5	25.0	26.7	38.5	25.4		
SW	2.6	27.0	6.6	*	.0	.0	36.2	7.9	37.9	33.9	34.8	31.8	33.9	42.3	34.8	40.2		
W	1.8	10.6	2.7	*	.0	.0	15.1	7.5	13.7	17.6	12.0	16.9	18.5	17.6	10.5	14.6		
NW	.7	1.9	.5	.0	.0	.0	3.1	6.8	1.4	5.6	2.9	9.9	3.7	1.4	1.8	.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.3						5.3	.0	6.1	7.6	7.5	5.2	4.7	2.3	4.9	3.7		
TOT OBS	446	1878	415	4	1	0	2744	7.0	556	275	305	212	513	261	325	297		
TOT PCT	16.3	68.4	15.1	.1	*	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	
N	1.0	.4	.1	.0	.0			1.5	6.9	1.7	2.4	1.2	.7	
NE	.9	.4	.1	.0	.0			1.4	6.0	1.4	1.3	2.0	.9	
E	1.6	.8	.1	*	.0			2.4	6.5	2.6	2.5	2.1	2.6	
SE	4.7	2.9	.1	.0	.0			7.7	6.4	8.2	6.8	7.4	8.0	
S	13.5	13.4	.3	.0	.0			27.2	7.3	25.0	27.1	25.5	32.3	
SW	15.1	20.7	.5	.0	.0			36.2	7.9	36.6	33.6	36.8	37.3	
W	7.3	7.5	.3	.0	.0			15.1	7.5	15.0	14.0	18.2	12.5	
NW	1.6	1.4	*	.0	.0			3.1	6.8	2.8	5.8	2.9	1.3	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	5.3							5.3	.0	6.6	6.6	3.9	4.3	
TOT OBS	1401	1302	40	1	0	2744			7.0	831	517	774	622	
TOT PCT	51.1	47.4	1.5	*	.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1880-1976

FEBRUARY

AREA 0012 ACCRA
3.3N .4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM			WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47						
00003	6.6	10.2	68.4	14.4	.2	.1	.0	7.0	100.0	831	
06009	6.6	12.8	67.1	13.3	.2	.0	.0	5.7	100.0	517	
12015	3.9	11.5	69.1	15.4	.1	.0	.0	7.1	100.0	774	
18021	4.3	9.6	68.8	17.2	.0	.0	.0	7.2	100.0	622	
TOT	146	300	1878	415	4	1	0	7.0		2744	
PCT	5.3	10.9	68.4	15.1	.1	*	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	.2	.4	.2	4.8	
NE	.2	.1	.2	.5	5.5	
E	.4	.4	.4	1.0	5.6	
SE	1.9	1.3	2.3	.9	4.3	
S	8.4	10.3	12.2	4.8	4.3	
SW	11.1	8.2	10.8	5.5	4.1	
W	2.5	2.0	3.5	2.4	4.8	
NW	.2	.2	1.0	.7	6.0	
VAR	.0	.0	.0	.0	.0	
CALM	2.4	1.0	1.3	.7	3.2	
TOT OBS	326	283	381	198	1188	4.3
TOT PCT	27.4	23.8	32.1	16.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.7	
NE	.1	.0	.0	.1	.1	.2	.1	.1	.1	.0	.4	
E	.0	.1	.0	.2	.2	.5	.0	.0	.0	.0	1.2	
SE	.0	.0	.0	.3	.7	.7	.2	.2	.0	.2	4.2	
S	.0	.0	.2	1.7	2.8	2.3	.5	.3	.1	.3	27.4	
SW	.0	.1	.2	1.5	4.0	2.2	.5	.4	.1	.6	25.9	
W	.0	.0	.0	.4	1.0	.9	.5	.1	.1	.4	6.9	
NW	.0	.0	.1	.1	.5	.3	.2	*	.1	.2	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.1	.3	.1	.0	.0	.5	4.2	
TOT OBS	1	2	6	54	113	89	26	14	7	26	850	1188
TOT PCT	.1	.2	.5	4.5	9.5	7.5	2.2	1.2	.6	2.2	71.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)		= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
= OR >5000	3.1	3.8	4.0	4.0	4.0	4.0	4.0	4.1	4.1	4.1
= OR >3500	4.7	5.8	6.1	6.1	6.1	6.1	6.1	6.2	6.2	6.2
= OR >2000	10.6	12.9	13.4	13.4	13.4	13.4	13.4	13.5	13.5	13.5
= OR >1000	18.0	22.2	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.8
= OR >600	21.2	26.3	27.1	27.1	27.1	27.1	27.1	27.2	27.2	27.2
= OR >300	21.4	26.7	27.7	27.7	27.7	27.7	27.7	27.8	27.8	27.8
= OR >150	21.4	26.8	27.8	27.8	27.8	27.8	27.8	27.9	27.9	27.9
= OR >0	21.4	26.8	27.8	27.8	27.8	27.9	27.9	28.0	28.0	28.0
TOTAL	264	330	343	343	344	344	344	345	345	345

TOTAL NUMBER OF OBS: 1232

PCT FREQ NH <5/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.9	12.1	15.6	16.6	12.4	6.4	8.4	5.0	9.5	.0	1310

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1880-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.0	.1
	NO PCP	.2	.1	.3	.2	.7	.3	.2	.4	.0	.0	.0	2.4
	TOT %	.2	.1	.4	.2	.7	.3	.2	.4	.0	.0	.0	2.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.1	.1	.5	.4	.1	.0	.1	.1	1.3
	TOT %	.0	.0	.0	.1	.1	.5	.4	.2	.0	.1	.1	1.3
2<5	PCP	*	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.5
	NO PCP	*	.1	.1	.1	.6	.7	.3	.1	.0	.5	.5	2.4
	TOT %	.1	.2	.1	.1	.7	.8	.3	.2	.0	.5	.5	3.0
5<10	PCP	.0	.0	.1	.1	.2	.3	.0	.0	.0	.1	.1	.8
	NO PCP	.2	.4	.3	.9	5.0	7.4	4.1	.7	.0	.6	.6	19.7
	TOT %	.2	.4	.4	1.0	5.2	7.7	4.1	.7	.0	.7	.7	20.5
10+	PCP	.0	.0	.1	.0	.5	.3	*	.0	.0	.1	.1	1.2
	NO PCP	.5	.7	1.4	4.8	26.1	26.2	6.9	1.3	.0	3.6	71.4	
	TOT %	.5	.7	1.5	4.8	26.7	26.5	6.9	1.3	.0	3.7	72.6	
TOT OBS													1514
TOT PCT		1.1	1.5	2.4	6.2	33.5	35.8	11.8	2.9	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD. KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	*	*	.0	.0	.0	.9	1.0
	4-10	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	*	.0	.0	*	*	*	.0	.0	.0	.9	1.1
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0
	4-10	.1	*	.2	.2	.4	.2	.1	.3	.0	.0	.0	1.4
	11-21	*	*	.0	.2	.1	.0	*	*	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.3	.2	.5	.3	.1	.3	.0	.0	.0	1.9
1<2	0-3	.0	.0	.0	*	.1	*	.1	.0	.0	*	.0	.2
	4-10	.1	.0	.0	*	.1	.4	.2	.1	.0	.0	.0	.9
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.1	.2	.4	.3	.1	.0	*	.0	1.2
2<5	0-3	.0	*	*	*	.1	.3	*	*	.0	.4	.1	1.1
	4-10	.1	.1	*	.1	.3	.5	.4	.1	.0	.0	.0	1.7
	11-21	*	*	.0	.0	.1	.3	.1	*	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.1	.2	.6	1.1	.6	.2	.0	.4	.0	3.4
5<10	0-3	.1	.2	.2	.3	.8	.5	.2	*	.0	.6	.0	2.8
	4-10	.1	*	.1	.8	3.5	5.3	2.5	.5	.0	.0	.0	13.0
	11-21	*	.1	.2	.5	2.0	1.1	.1	.0	.0	.0	.0	4.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.3	.4	1.3	4.7	7.9	3.8	.7	.0	.6	.0	20.0
10+	0-3	.2	.2	.3	.3	2.8	1.9	.9	.3	.0	3.5	.0	10.4
	4-10	.5	.4	.9	4.0	16.7	20.4	6.3	.9	.0	.0	.0	50.2
	11-21	.2	*	.2	.5	3.8	5.2	1.6	.3	.0	.0	.0	11.8
	22+	.0	.0	*	.0	.1	*	.0	.0	.0	.0	.0	.2
	TOT %	.9	.7	1.4	4.7	23.4	27.6	8.8	1.5	.0	3.5	.0	72.5
TOT OBS													2144
TOT PCT		1.4	1.3	2.2	6.4	29.5	37.3	13.7	2.8	.0	5.4	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1880-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.4	.4	2.2	8.3	3.2	.7	1.4	.4	1.8	18.7	81.3	278
06009	.0	.3	.6	5.0	12.5	9.1	2.5	.3	.3	2.2	32.8	67.2	320
12015	.0	.0	.6	3.4	7.1	9.7	2.3	2.3	.6	2.6	28.4	71.6	352
18021	.3	.0	.6	6.2	8.6	6.5	2.5	.6	.9	2.2	28.4	71.6	324
TOT	1	2	7	54	116	93	26	15	7	28	349	925	1274
PCT	.1	.2	.5	4.2	9.1	7.3	2.0	1.2	.5	2.2	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	1.9	1.2	3.1	22.2	70.5	641
06009	1.3	2.0	.7	3.5	20.6	72.0	461
12015	.5	2.3	2.1	3.6	20.1	71.3	607
18021	1.4	1.2	.6	4.3	18.7	73.8	507
TOT	23	41	27	80	454	1591	2216
PCT	1.0	1.9	1.2	3.6	20.5	71.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.7	4.5	16.0	79.5	268
06009	.0	1.0	9.4	26.6	64.0	308
12015	.0	.6	6.4	24.0	69.6	342
18021	.3	1.3	9.9	21.0	69.1	314
TOT	1	11	94	273	865	1232
PCT	.1	.9	7.6	22.2	70.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.3	.0	.0	5	.4
85/89	.0	.0	.0	.0	.6	6.5	3.0	.4	130	10.4
80/84	.0	.0	.0	.1	.7	22.6	50.9	6.7	1008	81.0
75/79	.0	.0	.0	.0	.1	.6	4.5	2.9	100	8.0
70/74	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	1	18	373	727	126	1245	100.0
PCT	.0	.0	.0	.1	1.4	30.0	58.4	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.2	.1	.0	.0	.1
.1	.1	.1	1.0	3.0	4.1	1.6	.1	.0	.4
.6	.4	1.1	4.9	31.2	29.7	8.5	.8	.0	3.7
.2	.6	.8	.5	1.5	2.2	.7	1.1	.0	.4
.0	.0	.1	.0	.1	*	.0	.0	.0	.0
.9	1.1	2.1	6.4	35.9	36.2	10.8	2.0	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	85	84	81	77	75	69	80.9	847
06009	88	86	84	81	77	73	72	81.1	528
12015	91	90	88	83	79	77	70	83.3	777
18021	90	87	85	82	78	76	72	82.1	615
TOT	91	88	86	82	78	75	69	81.9	2767

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.9	21.8	61.2	16.6	84	338
06009	.0	.0	1.0	18.3	67.4	13.3	84	301
12015	.0	.0	2.3	46.2	45.9	5.7	80	353
18021	.0	.3	1.3	31.0	56.9	10.5	82	313
TOT	0	1	18	387	750	149	82	1305

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.1	.1	4	.0	.3
7/8	.0	.0	.0	.0	.3	.5	11	.0	.7
6	.0	.0	.0	.1	.1	.1	4	.0	.3
5	.0	.0	.0	.1	.7	.2	16	.0	1.1
4	.0	.0	.0	.7	.9	.1	26	.2	1.5
3	.0	.0	.3	1.1	1.2	.1	40	.2	2.5
2	.0	.0	.3	3.6	2.5	.0	98	.4	6.1
1	.0	.1	1.3	9.1	1.7	.1	183	.4	11.7
0	.0	.1	2.6	18.6	1.7	.0	345	.7	22.2
-1	.0	.1	3.3	18.1	.7	.0	334	.7	21.4
-2	.0	.2	2.9	10.5	.1	.0	208	.5	13.2
-3	.0	.3	2.9	3.4	.1	.0	101	.3	6.4
-4	.0	.1	1.3	2.6	.1	.0	61	.1	4.0
-5	.0	.3	1.9	.8	.0	.0	47	.1	3.1
-6	.0	.0	.4	.3	.0	.0	11	.1	.6
-7/-8	.1	.5	.1	.2	.0	.0	14	.0	.9
-9/-10	.1	.3	.0	.0	.0	.0	5	.0	.3
-11/-13	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	4		259		152		1508	55	1453
PCT	.3	31	1044	18	100.0	3.6	96.4		

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.1	.1	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.1	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.3	.0	.0	.0	1.1	.0	.5	.2	.0	.0	.0	.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	1.1	.0	.0	.0	.0	1.1
1-2	.1	.1	.2	.0	.0	.0	.5	.1	2.5	.2	.0	.0	.0	2.9
3-4	.0	.3	.2	.0	.0	.0	.5	.0	.8	.5	.0	.0	.0	1.3
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.0	.5	.0	.0	.0	1.9	.2	4.5	1.0	.0	.0	.0	5.7

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	4.1	.3	.0	.0	.0	5.6	.8	5.2	.3	.0	.0	.0	6.3
1-2	1.0	15.2	3.3	.0	.0	.0	19.6	.6	15.5	3.4	.0	.0	.0	19.5
3-4	.0	4.5	3.9	.3	.0	.0	8.8	.1	4.9	4.5	.0	.0	.0	9.6
5-6	.0	.2	.5	.0	.0	.0	.8	.0	.5	.2	.0	.0	.0	.7
7	.0	.1	.4	.0	.0	.0	.5	.0	.1	.6	.0	.0	.0	.6
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	24.3	8.5	.3	.0	.0	35.4	1.5	26.3	8.9	.0	.0	.0	36.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	1.4	.0	.0	.0	.0	2.3	.6	.3	.0	.0	.0	.0	.9	
1-2	.3	3.6	1.2	.0	.0	.0	5.0	.0	.7	.4	.0	.0	.0	1.1	
3-4	.0	1.4	.7	.0	.0	.0	2.2	.0	.3	.0	.0	.0	.0	.4	
5-6	.0	.2	.6	.0	.0	.0	.8	.0	.1	.1	.0	.0	.0	.3	
7	.0	.2	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	6.9	2.7	.0	.0	.0	10.6	.6	1.5	.5	.0	.0	.0	2.7	94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.9	13.2	.6	.0	.0	.0	23.7	
1-2	2.7	37.4	8.6	.0	.0	.0	48.7	
3-4	.2	12.2	10.1	.3	.0	.0	22.8	
5-6	.0	1.2	1.8	.0	.0	.0	3.1	
7	.0	.3	1.1	.0	.0	.0	1.5	
8-9	.1	.1	.0	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	64.5	22.1	.3	.0	.0	100.0	885

PERIOD: (OVER-ALL) 1950-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.9	22.2	14.3	4.4	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	497	3
6-7	.1	3.1	7.3	2.4	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	4
8-9	.1	.6	2.9	1.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
10-11	.0	2.0	2.8	1.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	4
12-13	.0	.0	1.6	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.4	9.2	6.2	.6	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	2
TOTAL	135	405	384	115	39	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1089	3
PCT	12.4	37.2	35.3	10.6	3.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1870-1976

MARCH

AREA 0012 ACCRA
3.1N .2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	13.3	8.1	2.2	.0	.0	.0	.0	23.7	2.2	9.6	.0	.0	3.0	.0	61.5
NE	19.8	2.7	4.5	.0	.0	.0	.0	27.0	8.1	7.2	.0	.0	3.6	.0	61.3
E	4.5	6.5	2.6	.0	.0	.0	.0	13.6	.0	4.5	2.6	.0	1.3	.0	77.9
SE	2.0	.7	.5	.0	.0	.0	.0	3.0	3.5	7.4	.0	.0	1.7	.0	84.7
S	1.2	.9	.5	.0	.0	.0	.0	2.5	3.2	6.4	.7	.0	1.0	.0	86.6
SW	1.1	.4	.1	.0	.0	.0	.0	1.6	1.8	4.6	.2	.2	1.4	.3	90.2
W	2.6	1.7	1.0	.0	.0	.0	.0	5.3	2.5	4.7	.0	.0	1.7	.6	85.7
NW	4.7	.0	.0	.0	.0	.0	.0	4.7	.0	9.8	2.1	.0	.0	.0	83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	1.7	.0	.0	.0	.0	.0	3.4	.0	5.2	1.7	.0	.0	.0	89.7
TOT PCT	2.1	1.1	.5	.0	.0	.0	.0	3.7	2.5	5.8	.5	.1	1.3	.2	86.5
TOT OBS:	1701														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	1.1	.2	.0	.0	.0	.0	2.7	2.0	11.8	.7	.0	1.6	.0	81.5
06009	2.8	1.7	.2	.0	.0	.0	.0	4.7	3.1	7.8	.2	.0	1.4	.0	83.6
12015	2.6	.9	.4	.0	.0	.0	.0	3.8	2.6	1.1	.9	.0	1.5	.4	90.2
18021	1.6	1.4	1.2	.0	.0	.0	.0	4.0	1.9	2.8	.0	.2	.9	.5	89.9
TOT PCT	2.1	1.2	.5	.0	.0	.0	.0	3.8	2.4	5.8	.5	.1	1.4	.2	86.4
TOT OBS:	1767														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.4	1.3	.3	.1	.0	.0		2.1	7.6	2.2	4.3	2.6	3.2	1.6	.5	1.1	2.2
NE	.4	.9	.2	.0	.0	.0		1.7	7.3	1.3	1.9	1.6	2.3	2.3	1.4	1.0	1.4
E	.4	1.0	.4	.1	.0	.0		1.9	7.9	2.5	1.8	2.1	.8	2.0	1.4	2.0	1.1
SE	1.4	5.2	1.5	.0	.0	.0		8.1	7.4	8.0	6.9	8.6	7.2	8.1	7.2	8.0	11.0
S	3.4	20.7	5.5	.0	.0	.0		29.6	7.6	30.2	20.2	29.6	28.4	30.7	30.5	37.2	26.5
SW	2.9	26.3	7.3	.1	.0	.0		36.6	8.2	36.1	34.0	36.0	34.5	35.1	41.7	37.9	39.7
W	1.2	9.6	2.0	*	*	.0		12.9	7.8	11.5	20.5	10.9	13.0	14.1	13.4	9.4	11.9
NW	.5	2.0	.3	*	*	.0		2.9	7.0	2.2	5.7	3.3	4.7	3.2	.6	1.2	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.2	.0	6.0	4.7	5.3	5.9	2.9	3.2	2.1	3.2
TOT OBS	465	2108	554	12	3	0	3142		7.5	651	317	377	237	592	279	376	313
TOT PCT	14.8	67.1	17.6	.4	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	1.1	.8	.2	.0	.0			2.1	7.6	2.8	2.8	1.3	1.6		
NE	1.1	.4	.1	.1	.0			1.7	7.3	1.5	1.9	2.0	1.2		
E	1.0	.7	.2	.0	.0			1.9	7.9	2.2	1.6	1.8	1.6		
SE	3.9	4.1	.1	.0	.0			8.1	7.4	7.7	8.0	7.8	9.4		
S	13.0	16.0	.5	.0	.0			29.6	7.6	26.9	29.2	30.7	32.4		
SW	12.9	23.2	.6	.0	.0			36.6	8.2	35.4	35.4	37.2	38.7		
W	5.4	7.2	.2	.0	.0			12.9	7.8	14.5	11.7	13.9	10.6		
NW	1.5	1.3	.1	.0	.0			2.9	7.0	3.4	3.9	2.4	2.0		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	4.2							4.2	.0	5.6	5.5	3.0	2.6		
TOT OBS	1389	1889	59	5	0	3142			7.5	968	614	871	689		
TOT PCT	44.2	59.8	1.9	.2	.0	100.0				100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1870-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.6	10.8	66.5	16.8	.2	.0	.0	.0	7.3	100.0	968
06009	5.5	11.1	67.4	15.6	.0	.3	.0	.0	7.2	100.0	614
12015	3.0	10.9	66.7	19.1	.3	.0	.0	.0	7.5	100.0	871
18021	2.6	9.4	68.1	18.7	1.0	.1	.0	.0	8.0	100.0	689
TOT	132	333	2108	554	12	3	0	7.5			3142
PCT	4.2	10.6	67.1	17.6	.4	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	.4	.9		6.1
NE	.1	.1	.5	.8		6.5
E	.2	.2	.9	.9		6.1
SE	2.0	2.1	3.1	1.3		4.5
S	7.8	12.3	11.4	4.4		4.3
SW	9.0	9.7	10.4	5.2		4.3
W	2.7	2.1	3.3	2.3		4.6
NW	.4	.2	1.3	.8		5.7
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	1.0	.6		4.5
TOT OBS	337	399	469	247	1452	4.5
TOT PCT	23.2	27.5	32.3	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.1	.4	.3	.1	.1	.1	.0	.0	.8	
.1	.0	.1	.2	.3	.3	.1	*	.0	.1	.3	
.0	.0	.2	.1	.5	.3	.1	.0	.1	.0	.9	
.1	.0	.0	.6	.7	.6	.3	.1	.0	.2	5.9	
.0	.1	.2	.8	2.6	2.1	.4	.1	.3	.3	29.0	
.1	*	.1	.7	2.0	2.1	.7	.0	.2	.4	28.1	
.0	.2	.1	.2	1.2	1.3	.5	.1	.1	.2	6.5	
.0	.0	.0	.3	.4	.4	.1	.0	.0	*	1.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.0	.4	.3	.0	.0	.1	.1	2.0	
.4	4	11	47	123	108	32	5	10	18	1090	1452
.3	.3	.8	3.2	8.5	7.4	2.2	.3	.7	1.2	75.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				OR >0
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0	
OR >6500	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
OR >5000	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
OR >3500	4.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
OR >2000	9.6	11.8	12.1	12.1	12.1	12.2	12.2	12.3	
OR >1000	15.9	19.8	20.6	20.6	20.7	20.8	20.8	20.8	
OR >600	18.0	22.7	23.8	23.8	23.9	24.0	24.0	24.0	
OR >300	18.6	23.4	24.5	24.6	24.6	24.7	24.7	24.8	
OR >150	18.6	23.5	24.6	24.7	24.8	24.8	24.8	24.9	
OR >0	18.7	23.7	24.8	25.0	25.1	25.1	25.1	25.3	
TOTAL	279	354	371	373	374	375	375	377	

TOTAL NUMBER OF OBS: 1493

PCT FREQ NH <5/8: 74.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
9.2	12.0	22.5	18.2	12.3	6.4	6.8	4.7	7.7	.3	1557

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1870-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.4	
1<2	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.1	.1	.1	.2	.1	.0	.0	.0	.6	
	TOT %	.1	.1	.1	.1	.1	.3	.1	.0	.0	.0	.8	
2<5	PCP	.2	.2	.1	.0	.2	*	.1	.0	.0	.0	.8	
	NO PCP	.0	.0	.1	.1	.5	.3	.0	.1	.0	.1	1.1	
	TOT %	.2	.2	.2	.1	.7	.3	.1	.1	.0	.1	1.8	
5<10	PCP	.2	.1	.0	.2	.3	.2	.1	.1	.0	.1	1.2	
	NO PCP	.4	.3	.7	1.2	3.9	4.9	2.0	.6	.0	.8	14.8	
	TOT %	.6	.5	.7	1.3	4.2	5.1	2.0	.6	.0	.9	16.0	
10+	PCP	.1	.1	.1	.1	.4	.2	.4	.1	.0	.0	1.5	
	NO PCP	1.0	.9	1.0	7.1	28.7	28.1	8.0	2.1	.0	2.4	79.4	
	TOT %	1.2	.9	1.2	7.3	29.1	28.3	8.4	2.2	.0	2.4	80.9	
TOT OBS													1700
TOT PCT		2.0	1.6	2.3	8.7	34.4	34.2	10.6	2.8	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.9	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.1	*	.0	.0	.0		.2	
	11-21	.0	.0	*	.0	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	.1	.0	.1	*	.0	.0	.0	.0	.3	
1<2	0-3	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	*	.1	.1	.0	.0	.0		.3	
	11-21	.0	*	.0	.0	.0	*	*	.0	.0		.1	
	22+	.0	.0	*	.0	.0	*	*	.0	.0		.1	
	TOT %	*	*	*	*	.1	.2	.1	*	.0	.0	.6	
2<5	0-3	.0	*	*	*	*	.1	*	*	.0	.1	.4	
	4-10	*	*	*	*	.3	.2	.1	*	.0		.8	
	11-21	.1	.1	*	*	.3	.1	*	.0	.0		.6	
	22+	*	.1	*	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.1	.1	.6	.3	.2	.1	.0	.1	1.8	
5<10	0-3	.2	.1	.2	.1	.4	.3	.1	*	.0	.8	2.1	
	4-10	.2	.3	.4	1.0	2.3	3.4	1.3	.5	.0		9.3	
	11-21	.1	.1	.2	.2	.9	1.4	.6	.1	.0		3.5	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.5	.5	.7	1.2	3.6	5.1	2.1	.6	.0	.8	15.0	
10+	0-3	.1	.2	.1	.9	2.6	2.7	.8	.4	.0	2.6	10.4	
	4-10	1.1	.7	.5	4.3	19.2	22.8	7.3	1.4	.0		57.2	
	11-21	.2	.1	.3	1.2	4.2	5.8	1.5	.2	.0		13.4	
	22+	*	.0	.0	*	.0	.1	.0	*	.0		.3	
	TOT %	1.5	.9	.9	6.4	26.0	31.4	9.6	2.0	.0	2.6	81.2	
TOT OBS													2341
TOT PCT		2.2	1.6	1.9	7.7	30.4	37.1	12.0	2.7	.0	4.3	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1870-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.3	.3	1.9	6.7	4.2	1.1	.0	.6	.8	16.2	83.8	359
06009	.3	1.0	.8	4.1	10.0	6.7	2.8	.5	.0	1.3	27.5	72.5	389
12015	.5	.0	1.0	3.2	7.8	10.7	2.2	.2	1.7	1.0	28.2	71.8	411
18021	.3	.3	.8	3.2	8.8	6.9	2.7	.8	.8	2.4	26.8	73.2	377
TOT PCT	5 .3	6 .4	11 .7	48 3.1	128 8.3	111 7.2	34 2.2	6 .4	12 .8	21 1.4	382 24.9	1154 75.1	1536 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.3	.1	.4	1.5	16.8	79.8	673
06009	.8	.0	.6	2.1	17.1	79.5	516
12015	.9	.9	.8	1.2	11.7	84.5	656
18021	1.1	.0	1.2	2.5	14.6	80.6	563
TOT PCT	25 1.0	7 .3	18 .7	43 1.8	360 15.0	1955 81.2	2408 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.6	.9	3.8	13.7	82.5	343
06009	.3	1.6	7.2	21.4	71.4	374
12015	.5	2.0	6.7	22.5	70.9	405
18021	.3	1.3	7.3	21.0	71.7	371
TOT PCT	6 .4	22 1.5	94 6.3	296 19.8	1103 73.9	1493 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.5	.5	.0	.0	13	1.0
85/89	.0	.0	.0	.1	.8	8.4	3.0	.2	165	12.5
80/84	.0	.0	.0	.1	.8	24.8	44.6	8.9	1044	79.2
75/79	.0	.0	.0	.0	.0	.6	3.1	3.5	95	7.2
70/74	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL PCT	0 .0	0 .0	0 .0	2 .2	29 2.2	452 34.3	668 50.6	168 12.7	1319	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.6	.2	.1	.0	.0	.0
.2	.1	.2	1.4	4.3	4.5	1.4	.3	.0	.2
.9	.6	1.3	7.1	30.4	27.2	6.8	1.8	.0	3.0
1.2	.8	.6	.3	1.2	1.4	1.1	.6	.0	.1
.0	.1	.0	.0	.0	.0	.1	.0	.0	.0
2.2	1.6	2.1	8.9	36.5	33.2	9.5	2.7	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	85	84	82	78	76	74	81.6	979
06009	91	87	85	82	78	76	72	81.8	624
12015	95	91	89	84	80	75	70	83.9	876
18021	93	90	86	83	79	75	72	82.6	686
TOT	95	90	86	82	79	76	70	82.5	3165

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	2.2	22.3	59.8	15.7	83	363
06009	.0	.0	1.2	23.2	59.6	15.9	84	327
12015	.0	.3	4.2	51.0	37.3	7.3	79	357
18021	.0	.3	1.2	41.2	46.6	10.7	81	328
TOT	0	2	31	474	698	170	82	1375

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(OVER-ALL) 1870-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.0	.1	3	.0	.2
9/10	.0	.0	.0	.1	.1	.1	.1	4	.0	.2
7/8	.0	.0	.0	.2	.2	.9	.1	22	.0	1.3
6	.0	.0	.0	.0	.2	.1	.0	4	.0	.2
5	.0	.0	.0	.2	.8	.2	.0	21	.0	1.3
4	.0	.0	.0	.8	1.1	.3	.0	36	.0	2.2
3	.0	.0	.1	.6	1.1	.3	.0	33	.0	2.0
2	.0	.0	.1	2.7	2.3	.1	.0	85	.0	5.2
1	.0	.0	.4	5.8	2.2	.1	.0	138	.1	8.4
0	.0	.0	.7	15.9	2.9	.1	.0	320	.2	19.4
-1	.0	.1	.8	16.3	1.8	.0	.0	310	.1	18.8
-2	.0	.0	1.3	13.8	.6	.0	.0	255	.1	15.5
-3	.0	.1	1.8	7.5	.3	.0	.0	158	.0	9.7
-4	.0	.1	2.0	4.2	.3	.0	.0	108	.0	6.6
-5	.0	.1	2.0	2.3	.1	.0	.0	73	.0	4.5
-6	.0	.2	1.2	.6	.1	.0	.0	33	.0	2.0
-7/-8	.1	.1	.6	.4	.0	.0	.0	17	.0	1.0
-9/-10	.0	.2	.1	.1	.0	.0	.0	7	.0	.4
-11/-13	.0	.2	.1	.0	.0	.0	.0	6	.0	.4
-14/-16	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	16	182	1167	34	5		1634	7	1627
PCT	.1	1.0	11.1	71.4	14.0	2.1	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.2
1-2	.0	.8	.3	.0	.0	.0	1.0	.1	.4	.0	.0	.0	.0	.5
3-4	.0	.1	.2	.0	.0	.0	.3	.1	.1	.2	.0	.0	.0	.4
5-6	.0	.0	.2	.1	.0	.0	.2	.0	.0	.0	.1	.1	.0	.2
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.6	.3	.0	.0	2.1	.2	.8	.3	.1	.1	.0	1.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.6	.4	.1	.0	.0	.0	1.1
1-2	.0	.6	.3	.0	.0	.0	.8	.5	3.5	.7	.0	.0	.0	4.7
3-4	.0	.1	.1	.1	.0	.0	.2	.0	.8	.6	.0	.0	.0	1.5
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.2	.1	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.4	.2	.0	.0	1.6	1.1	5.0	1.6	.0	.1	.0	7.8

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	3.5	.2	.0	.0	.0	5.6	1.9	4.7	.2	.0	.0	.0	6.8
1-2	.8	17.1	2.4	.0	.0	.0	20.3	.8	15.1	3.3	.0	.0	.0	19.2
3-4	.0	4.7	3.9	.0	.0	.0	8.6	.0	3.9	2.6	.3	.0	.0	6.8
5-6	.0	.4	.7	.0	.0	.0	1.0	.0	.3	.1	.0	.0	.0	.4
7	.0	.1	.1	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	25.7	7.4	.0	.0	.0	35.7	2.7	24.0	6.3	.3	.0	.0	33.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	2.8	.1	.0	.0	.0	3.8	.4	.8	.0	.0	.0	.0	1.1	
1-2	.2	3.9	1.3	.0	.0	.0	5.4	.1	1.1	.1	.0	.0	.0	1.3	
3-4	.0	1.6	.7	.0	.0	.0	2.3	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.1	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	8.4	2.1	.0	.0	.0	11.6	.5	1.9	.3	.1	.0	.0	2.9	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.4	12.6	.6	.0	.0	.0	23.7	
1-2	2.4	42.2	8.2	.0	.0	.0	52.8	
3-4	.2	11.1	8.4	.4	.0	.0	20.1	
5-6	.1	.9	1.2	.3	.1	.0	2.5	
7	.0	.2	.3	.2	.1	.0	.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.1	67.0	18.8	.9	.2	.0	100.0	1141

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	20.9	10.9	3.8	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	543	2
6-7	.0	2.4	6.6	5.2	1.2	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	4
8-9	.0	1.4	4.1	3.0	1.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
10-11	.0	1.7	1.1	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	3
12-13	.0	.0	1.9	.3	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	5
>13	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
INDET	7.6	8.4	7.8	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	2
TOTAL	152	479	446	220	56	14	5	3	1	1	0	0	0	0	0	0	0	0	0	1377	3
PCT	11.0	34.8	32.4	16.0	4.1	1.0	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0012 ACCRA
3.3N .2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.3	2.9	2.2	.0	.0	.0	.0	12.4	2.9	5.1	2.2	.0	.0	.0	78.8
NE	3.9	.0	3.1	.0	.0	.0	.0	7.0	12.4	6.2	.0	.0	.0	.0	75.2
E	12.0	3.1	1.2	.0	.0	.0	.0	16.2	1.5	3.9	.0	.0	.0	1.5	78.0
SE	6.2	1.8	1.2	.0	.0	.0	.0	9.2	5.7	5.1	.5	.0	.0	.0	81.6
S	3.3	2.2	.4	.0	.0	.0	.2	6.0	3.0	5.8	.0	.0	.1	.0	85.8
SW	1.7	1.0	.2	.0	.0	.0	*	2.9	1.5	6.4	.0	.0	.2	.0	89.6
W	3.3	1.9	.7	.0	.0	.0	.0	5.9	2.3	8.8	.8	.0	.5	.0	82.6
NW	6.2	.0	.4	.0	.0	.0	.0	6.6	8.8	11.0	2.2	.0	.0	.0	72.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	1.4	.0	.0	.0	.0	.0	2.7	1.4	9.6	.0	.0	.0	.0	86.3
TOT PCT	3.5	1.6	.6	.0	.0	.0	.1	5.6	2.9	6.6	.3	.0	.2	.1	85.2
TOT OBS:	1791														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.3	2.4	.6	.0	.0	.0	.0	7.3	2.8	15.1	.0	.0	.2	.2	75.8
06009	3.5	1.4	1.2	.0	.0	.0	.0	6.0	2.5	7.6	.2	.0	.0	.0	84.8
12015	3.1	2.1	.4	.0	.0	.0	.2	5.5	2.7	.6	.6	.0	.4	.2	90.2
18021	3.4	.9	.6	.0	.0	.0	.0	5.0	3.7	4.3	.2	.0	.0	.0	87.5
TOT PCT	3.6	1.7	.7	.0	.0	.0	.1	5.9	2.9	6.7	.3	.0	.2	.1	84.8
TOT OBS:	1884														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	1.6	.1	.0	.0	.0		2.2	5.9	1.6	4.8	2.6	5.8	1.5	1.1	1.1	1.4	
NE	.4	1.3	.6	.1	.0	.0		2.4	8.6	2.4	6.0	1.6	4.2	1.8	1.1	1.3	1.9	
E	.6	2.0	.6	.2	.1	.0		3.5	9.3	4.2	2.6	2.8	4.4	3.6	2.7	3.4	3.8	
SE	1.2	7.5	1.3	.1	.1	.0		10.1	7.7	10.7	8.8	11.2	6.2	9.4	8.2	12.4	12.4	
S	2.6	18.2	4.6	.1	.0	.0		25.5	7.8	26.8	21.1	25.6	21.2	27.0	25.5	28.5	24.9	
SW	2.3	25.0	7.0	.2	.0	.0		34.4	8.2	32.2	28.5	31.2	28.9	35.4	44.1	36.3	39.7	
W	1.4	9.9	2.5	.1	.0	.0		13.9	8.0	14.2	16.5	13.6	19.1	14.1	12.1	10.8	11.5	
NW	.5	2.5	.7	*	.0	.0		3.7	7.5	2.6	7.6	3.2	8.3	2.9	1.8	3.0	2.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2							4.2	.0	5.2	4.2	8.2	2.0	4.3	3.5	3.2	1.8	
TOT OBS	435	2150	553	23	6	0	3167		7.6	638	337	353	252	585	282	378	342	
TOT PCT	13.7	67.9	17.5	.7	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.5	.7	*	.0	.0		2.2	5.9	2.7	3.9	1.4	1.2	
NE	1.2	.9	.2	*	.0		2.4	8.6	3.7	2.6	1.6	1.6	
E	1.6	1.4	.3	.1	*		3.5	9.3	3.6	3.5	3.3	3.6	
SE	4.6	5.1	.3	*	*		10.1	7.7	10.1	9.1	9.0	12.4	
S	11.2	13.5	.9	.1	.0		25.5	7.8	24.8	23.8	26.5	26.8	
SW	12.9	20.6	.9	.1	.0		34.4	8.2	30.9	30.2	38.2	37.9	
W	5.7	7.6	.5	*	.0		13.9	8.0	15.0	15.9	13.4	11.1	
NW	1.9	1.7	.1	.0	.0		3.7	7.5	4.3	5.3	2.5	2.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.2						4.2	.0	4.8	5.6	4.0	2.5	
TOT OBS	1421	1629	106	9	2	3167		7.6	975	605	867	720	
TOT PCT	44.9	51.4	3.3	.3	.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0012 ACCRA
3.3N .2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.8	11.5	66.3	16.6	.7	.1	.0	7.3	100.0	975	
06009	5.6	9.4	70.4	13.9	.5	.2	.0	7.2	100.0	605	
12015	4.0	8.5	68.4	18.1	.9	.0	.0	7.8	100.0	867	
18021	2.5	8.1	67.4	20.8	.7	.6	.0	8.3	100.0	720	
TOT	134	301	2150	553	23	6	0	7.6		3167	
PCT	4.2	9.5	67.9	17.5	.7	.2	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.6	.5		6.3
NE	.1	.2	.4	.6		6.3
E	.2	.4	1.4	1.5		6.3
SE	1.8	3.1	3.4	2.2		4.9
S	6.1	8.1	9.7	5.4		4.7
SW	5.8	9.0	13.9	5.5		4.8
W	1.4	3.0	4.9	2.9		5.4
NW	.1	.4	1.4	1.1		6.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.8	1.7	1.0		5.0
TOT OBS	238	365	542	300	1445	5.0
TOT PCT	16.5	25.3	37.5	20.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.2	.1	.2	.1	.1	.0	.1	.7	
NE	.0	.0	.1	.2	.2	.2	.1	.1	.0	.0	.6	
E	.1	.0	.1	.2	.4	.9	.1	.0	.1	.1	1.7	
SE	.0	.0	.2	.6	1.2	1.2	.3	.1	.0	.0	6.9	
S	.1	.1	.4	1.5	3.6	2.0	.4	.0	.1	.4	20.8	
SW	.1	.1	.6	1.2	2.7	2.9	.7	.4	.1	.4	25.2	
W	.1	.0	.2	.9	1.6	1.2	.2	.0	.0	.1	7.9	
NW	.0	.0	.2	.3	.2	.6	.1	.0	.0	.1	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.3	.7	.3	.2	.1	.0	.1	2.7	
TOT OBS	5	2	30	76	154	135	30	11	3	17	982	1445
TOT PCT	.3	.1	2.1	5.3	10.7	9.3	2.1	.8	.2	1.2	68.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >3500	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	12.2	13.2	13.5	13.5	13.5	13.5	13.5	13.5
= OR >1000	20.5	23.1	24.0	24.2	24.2	24.2	24.2	24.2
= OR >600	24.6	28.2	29.1	29.4	29.4	29.4	29.5	29.5
= OR >300	25.2	29.8	31.0	31.3	31.4	31.4	31.5	31.5
= OR >150	25.2	29.8	31.1	31.4	31.5	31.6	31.6	31.6
= OR > 0	25.3	30.2	31.4	31.8	31.9	32.0	32.0	32.0
TOTAL	380	453	472	477	479	480	481	481

TOTAL NUMBER OF OBS: 1502

PCT FREQ NH <5/8: 68.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	6.3	11.8	18.8	17.3	13.6	8.0	7.8	5.3	10.9	.3	1576

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0012 ACCRA
3.3N .2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	*	.1	.0	*	*	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	TOT %	.0	*	*	.1	.0	*	.1	*	.0	.0	.3	
1<2	PCP	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	*	.1	*	.0	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.2	.1	.1	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.2	.2	.2	.1	.0	.0	.0	.7	
	NO PCP	*	.1	.0	.1	.2	.1	.2	.1	.0	.0	.7	
	TOT %	*	.1	.0	.3	.4	.3	.3	.1	.0	.0	1.4	
5<10	PCP	.2	.1	.3	.3	.8	.5	.3	.2	.0	.1	2.5	
	NO PCP	.5	.8	.7	1.6	3.2	4.3	2.8	.6	.0	.4	14.8	
	TOT %	.6	.8	1.0	1.9	4.0	4.8	3.1	.7	.0	.4	17.3	
10+	PCP	.0	.1	.2	.3	.5	.2	.3	.1	.0	.1	1.7	
	NO PCP	1.2	.9	2.4	7.7	22.9	28.3	9.7	2.3	.0	3.6	78.7	
	TOT %	1.2	.9	2.6	8.0	23.3	28.5	10.0	2.3	.0	3.6	80.4	
TOT OBS		1.9	1.8	3.6	10.2	27.9	33.7	13.5	3.2	.0	4.1	100.0	1784
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.1	.1	*	.0	.0	.0	.6	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.1	*	.0	.0	.1	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.1	.1	.0	*	.1	*	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	*	*	.0	.0	.0	.1	
	22+	.0	.0	*	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.1	.0	*	.0	.1	.1	.1	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	*	.0	.0	*	.0	*	.1	
	4-10	*	.1	*	.3	.2	.3	.2	.1	.0	.0	1.2	
	11-21	.0	.1	.1	*	.1	*	*	.0	.0	.0	.4	
	22+	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.2	.1	.4	.4	.3	.3	.1	.0	*	1.8	
5<10	0-3	.2	.2	.1	.4	.1	.6	.4	.1	.0	.3	2.4	
	4-10	.3	.3	.4	1.0	2.8	2.2	1.6	.3	.0	.0	9.0	
	11-21	.1	.2	.2	.5	.7	1.6	.6	.2	.0	.0	4.2	
	22+	.0	.0	.1	*	*	*	.0	.0	.0	.0	.2	
	TOT %	.6	.7	.9	1.9	3.6	4.4	2.6	.6	.0	.3	15.8	
10+	0-3	.3	.1	.3	.8	2.2	1.7	.9	.3	.0	3.9	10.4	
	4-10	.9	.6	1.6	6.4	16.5	22.3	6.8	1.7	.0	.0	56.7	
	11-21	.1	.3	.4	.8	3.5	5.7	2.1	.4	.0	.0	13.4	
	22+	.0	*	*	*	*	.1	.1	*	.0	.0	.4	
	TOT %	1.3	1.0	2.4	8.0	22.3	29.7	9.8	2.4	.0	3.9	80.8	
TOT OBS		2.0	2.0	3.5	10.4	26.5	34.6	13.0	3.1	.0	4.9	100.0	2336
TOT PCT													

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

APRIL

AREA 0012 ACCR4
3.3N .2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.0	2.1	3.6	12.5	8.0	.9	.3	.3	1.2	29.2	70.8	336
06009	.3	.0	.8	6.8	11.3	9.4	2.1	1.8	.0	1.0	33.5	66.5	382
12015	.7	.0	2.7	4.1	9.6	9.6	2.1	.2	.0	1.4	30.4	69.6	437
18021	.3	.5	2.0	5.8	8.8	9.3	2.5	.8	.5	1.5	31.9	68.1	398
TOT	6	2	30	79	162	142	30	12	3	20	486	1067	1553
PCT	.4	.1	1.9	5.1	10.4	9.1	1.9	.8	.2	1.3	31.3	68.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.1	.9	1.9	16.9	79.8	667
06009	.2	.4	.6	1.7	13.4	83.7	516
12015	1.2	.3	.5	1.8	17.5	78.8	664
18021	1.2	.2	.0	2.1	15.5	81.1	582
TOT	18	6	12	46	388	1959	2429
PCT	.7	.2	.5	1.9	16.0	80.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	2.5	8.2	23.0	68.8	317
06009	.3	1.1	9.9	24.7	65.4	373
12015	.7	3.8	8.5	22.5	69.0	422
18021	.3	3.1	10.3	22.3	67.4	390
TOT	6	40	139	347	1016	1502
PCT	.4	2.7	9.3	23.1	67.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.3	.1	.0	9	.6
85/89	.0	.0	.0	.0	1.2	9.5	3.8	.3	213	14.7
80/84	.0	.0	.0	.0	1.2	26.4	41.2	7.0	1098	75.8
75/79	.0	.0	.0	.0	.0	.4	5.0	3.4	127	8.8
70/74	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	0	0	38	529	725	157	1449	100.0
PCT	.0	.0	.0	.0	2.6	36.5	50.0	10.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.3	.0	.0	.0	.1
.1	.1	.4	1.0	4.2	6.3	1.6	.1	.0	.8
.8	.5	2.4	8.8	22.1	26.0	10.4	1.9	.0	2.8
.6	1.0	.9	1.4	1.5	1.3	1.1	.9	.0	.2
.0	.0	.1	.0	.0	*	.1	.0	.0	.0
1.5	1.5	3.8	11.4	27.8	34.0	13.2	2.9	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	84	82	77	75	72	81.4	993
06009	88	86	85	82	77	75	72	81.6	615
12015	95	91	88	84	79	74	68	83.7	877
18021	91	89	86	83	78	75	70	82.4	723
TOT	95	89	86	82	77	75	68	82.3	3208

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.3	25.4	59.9	13.4	83	397
06009	.0	.0	2.0	30.1	54.2	13.8	82	349
12015	.0	.0	6.2	50.4	36.2	7.2	79	403
18021	.0	.0	2.2	36.3	50.3	11.3	82	372
TOT	0	0	45	544	760	172	82	1521

APRIL

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

TABLE 17

AREA 0012 ACCRA
9.3N .2WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
7/8	.0	.0	.0	.0	.2	.1	.2	.1	9	.0	.5
6	.0	.0	.0	.0	.1	.1	.3	.0	9	.0	.5
5	.0	.0	.0	.0	.0	.3	.5	.1	14	.0	.8
4	.0	.0	.0	.0	.2	.9	.6	.0	29	.0	1.7
3	.0	.0	.0	.0	.6	1.0	.2	.0	32	.0	1.8
2	.0	.0	.0	.1	1.9	1.9	.1	.0	71	.0	4.0
1	.0	.0	.0	.3	4.6	2.4	.1	.0	128	.0	7.3
0	.0	.0	.0	.7	11.8	4.7	.2	.0	306	.0	17.4
-1	.0	.0	.1	1.0	20.1	1.9	.0	.0	405	.1	23.0
-2	.0	.0	.0	1.1	14.2	.9	.1	.0	286	.1	16.2
-3	.0	.0	.1	2.3	6.8	.3	.0	.0	165	.1	9.3
-4	.0	.1	.0	2.2	4.3	.2	.0	.0	119	.1	6.7
-5	.0	.0	.2	2.1	2.1	.1	.0	.0	78	.0	4.4
-6	.0	.0	.3	1.0	.5	.0	.0	.0	33	.0	1.9
-7/-8	.0	.0	.6	1.4	.5	.1	.0	.0	44	.0	2.5
-9/-10	.1	.0	.5	.5	.0	.0	.0	.0	18	.0	1.0
-11/-13	.0	.1	.2	.0	.0	.0	.0	.0	5	.0	.3
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	33	1193	39	258	5	1757	100.0	.3	99.7	
PCT	.1	.2	1.9	12.7	67.9	14.7	2.2	.3			

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.3	.1	.0	.0	.0	.4	.0	.3	.2	.0	.0	.0	.5
3-4	.1	.3	.1	.0	.0	.0	.4	*	.1	.2	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.0	.2	.0	.0	.0	1.4	*	.6	.4	.1	.0	.0	1.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6	.3	2.5	*	.0	.0	.0	2.8
1-2	.0	.8	.5	.0	.0	.0	1.3	.0	4.5	.4	.0	.0	.0	4.9
3-4	.0	.3	.4	.0	.0	.0	.6	.0	1.5	.6	.0	.0	.0	2.1
5-6	.0	.3	.1	.1	.0	.0	.4	.0	.1	.5	.0	.1	.0	.7
7	.0	.0	.2	.1	.0	.0	.3	.0	.1	*	.0	.1	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	1.2	.2	.0	.0	3.3	.3	8.8	1.4	.0	.2	.0	10.7

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0012 ACCRA
3.3N .2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	3.3	.2	.0	.0	.0	4.2	.9	4.1	.5	.0	.0	.0	5.5	
1-2	.6	14.9	2.9	.0	.0	.0	18.4	.5	15.2	3.2	.0	.0	.0	18.8	
3-4	.0	2.9	2.4	.1	.0	.0	5.4	.0	6.2	3.1	.2	.0	.0	9.4	
5-6	.0	.3	.5	.1	.0	.0	.9	.0	.4	.6	.*	.0	.0	1.0	
7	.0	.1	.1	.0	.0	.0	.1	.0	.*	.3	.0	.0	.0	.3	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	21.7	6.2	.2	.0	.0	29.2	1.3	25.8	8.0	.2	.0	.0	35.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.1	.6	.0	.0	.0	.0	.7	
1-2	.3	6.3	1.0	.0	.0	.0	7.6	.*	.9	.1	.0	.0	.0	1.0	
3-4	.0	1.7	1.0	.0	.0	.0	2.6	.0	.2	.*	.0	.0	.0	.2	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.2	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	9.1	2.7	.0	.0	.0	12.5	.2	1.7	.2	.1	.0	.0	2.2	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	12.9	.7	.0	.0	.0	21.5	
1-2	1.8	42.4	8.2	.0	.0	.0	52.4	
3-4	.3	12.7	7.4	.3	.0	.0	20.7	
5-6	.0	1.2	2.0	.3	.1	.0	3.5	
7	.0	.2	.8	.2	.1	.0	1.3	
8-9	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.0	69.4	19.7	.7	.2	.0	100.0	1102

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	14.7	12.9	3.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	483	3
6-7	.1	3.5	7.7	4.5	1.7	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	247	4
8-9	.1	1.7	3.8	3.8	1.6	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	4
10-11	.0	1.7	2.6	.6	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	4
12-13	.0	.0	1.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	4
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	6.0	8.6	7.6	2.1	1.5	.5	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	362	3
TOTAL	126	412	497	210	87	19	9	2	3	1	1	0	0	0	0	0	0	0	0	1367	3
PCT	9.2	30.1	36.4	15.4	6.4	1.4	.7	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0012 ACCRA
3.2N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	7.6	.0	.0	.0	.0	.0	.0	7.6	3.8	3.8	.0	.0	.0	.0
NE	10.8	4.1	.0	.0	.0	.0	.0	14.9	.0	5.4	.0	.0	.0	.0
E	5.0	10.1	1.7	.0	.0	.0	.0	15.1	5.0	7.1	.0	.0	.0	.0
SE	3.0	1.3	.6	.0	.0	.0	.0	4.9	2.5	1.8	.4	.0	.0	.0
S	2.8	2.1	1.0	.0	.0	.0	.0	5.6	5.3	3.9	.0	.0	.3	.0
SW	2.5	2.0	.7	.0	.0	.0	.0	5.2	5.0	4.9	.9	.0	.3	.0
W	2.7	2.6	1.0	.0	.0	.0	.0	6.3	1.9	3.8	.0	.0	.0	.0
NW	3.7	.0	.9	.0	.0	.0	.0	4.6	7.4	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	4.0	.0	.0	.0	.0
TOT PCT	2.9	2.3	.8	.0	.0	.0	.0	5.8	4.3	3.8	.3	.0	.2	.0
TOT OBS:	1595													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	2.5	1.5	.7	.0	.0	.0	.0	4.4	3.4	7.8	.2	.0	.5	.0
06009	2.0	2.6	1.0	.0	.0	.0	.0	5.6	5.6	3.3	.0	.0	.0	.0
12015	2.9	3.8	.7	.0	.0	.0	.0	7.3	5.5	.9	.2	.0	.2	.0
18021	4.8	1.8	1.0	.0	.0	.0	.0	7.0	2.3	3.5	.5	.0	.0	.0
TOT PCT	3.0	2.4	.8	.0	.0	.0	.0	6.1	4.2	3.8	.2	.0	.2	.0
TOT OBS:	1650													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	1.2	.2	*	.0	.0		1.9	6.6	2.0	4.1	2.1	4.0	1.9	.4	.3	.5	
NE	.2	.9	.2	*	.0	.0		1.4	7.9	1.0	2.9	1.2	1.6	1.6	.8	1.5	.6	
E	.5	1.6	.7	.1	.0	.0		2.9	8.1	3.2	2.6	3.5	.9	2.7	2.6	4.3	2.4	
SE	1.2	8.0	4.5	.1	.0	.0		13.8	9.1	13.9	10.4	15.6	9.9	15.5	12.6	18.2	10.6	
S	2.7	24.5	9.6	.3	.0	.0		37.1	8.8	36.3	27.4	40.6	37.3	39.1	35.1	44.6	33.7	
SW	1.6	18.1	6.3	.1	.0	.0		26.2	8.6	28.1	26.8	20.9	23.7	22.0	33.2	22.8	35.6	
W	.9	7.9	2.1	.1	.0	.0		11.0	8.2	10.3	16.9	8.3	13.6	10.8	12.7	5.3	13.4	
NW	.3	1.7	.2	*	.0	.0		2.3	7.1	1.3	5.6	2.7	4.8	2.8	1.0	.6	.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4							3.4	.0	3.8	3.4	5.2	4.1	3.6	1.6	2.4	2.6	
TOT OBS	329	1843	685	21	0	0	2878		8.3	577	292	344	218	557	249	332	309	
TOT PCT	11.4	64.0	23.8	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	1.1	.6	.1	.0	.0	1.9	6.6	2.7	2.8	1.5	.4
NE	.6	.7	.1	.0	.0	1.4	7.9	1.7	1.4	1.3	1.1
E	1.4	1.3	.2	*	.0	2.9	8.1	3.0	2.5	2.7	3.4
SE	4.4	8.5	.8	.0	.0	13.8	9.1	12.7	13.3	14.6	14.5
S	12.7	22.6	1.9	.0	.0	37.1	8.8	33.3	39.3	37.9	39.4
SW	8.9	16.2	1.1	.0	.0	26.2	8.6	27.7	22.0	25.5	29.0
W	4.4	6.1	.4	.0	.0	11.0	8.2	12.5	10.4	11.4	9.2
NW	1.1	1.1	.1	.0	.0	2.3	7.1	2.7	3.5	2.2	.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4					3.4	.0	3.7	4.8	3.0	2.5
TOT OBS	1100	1643	134	1	0	2878	8.3	869	562	806	641
TOT PCT	38.2	57.1	4.7	*	.0	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

TABLE 4

AREA 0012 ACCRA
3.2N .3W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.7	6.1	69.2	20.3	.8	.0	.0	.0	8.1	100.0	869
06009	4.8	9.1	63.7	21.5	.9	.0	.0	.0	8.0	100.0	562
12015	3.0	9.6	58.7	28.2	.6	.0	.0	.0	8.5	100.0	806
18021	2.5	7.6	64.1	25.1	.6	.0	.0	.0	8.5	100.0	641
TOT	99	230	1843	685	21	0	0	0	8.3		2878
PCT	3.4	8.0	64.0	23.8	.7	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	.7	.5	5.8	.5
NE	.1	.1	.5	.3	6.2	.5
E	.5	.5	1.3	1.3	5.9	.5
SE	2.9	4.4	7.9	2.6	4.9	.5
S	5.2	10.9	19.0	9.3	5.3	.5
SW	1.7	3.2	10.6	3.7	5.7	.5
W	.6	1.4	4.1	1.5	5.6	.5
NW	.2	.4	.7	.6	5.7	.5
VAR	.0	.0	.0	.0	.0	.0
CALM	.4	1.2	1.2	.3	4.6	.5
TOT OBS	151	294	601	261	1307	5.3
TOT PCT	11.6	22.5	46.0	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.3	.2	.2	.1	.0	.0	.1	.9	
.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.6	
.0	.2	.0	.4	.6	.3	.1	.0	.0	.0	1.8	
.1	.0	.1	.8	2.3	1.3	.6	.3	.0	*	12.2	
.2	.0	.5	3.7	6.6	3.9	.6	.4	.0	.4	28.1	
.0	.0	.5	1.3	3.1	2.0	.6	.2	.1	.2	11.2	
.0	.0	.1	.5	1.3	.8	.1	.1	.0	.3	4.4	
.0	.0	.0	.1	.2	.4	.1	.0	.0	.1	.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.2	.3	.0	.1	.1	.1	2.2	
3	3	15	96	189	124	28	13	2	18	816	1307
.2	.2	1.1	7.3	14.5	9.5	2.1	1.0	.2	1.4	62.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>3500	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>2000	11.7	14.3	14.5	14.5	14.5	14.5	14.5	14.5
>1000	22.5	27.8	28.6	28.7	28.7	28.7	28.7	28.7
>600	27.9	34.8	35.8	36.0	36.0	36.1	36.1	36.1
>300	28.6	35.8	37.0	37.1	37.1	37.2	37.2	37.2
>150	28.6	35.8	37.0	37.2	37.2	37.3	37.4	37.4
>0	28.6	36.0	37.3	37.5	37.5	37.6	37.7	37.7
TOTAL	385	484	502	504	505	506	507	507

TOTAL NUMBER OF OBS: 1345

PCT FREQ NH <5/8: 62.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.1	7.1	17.6	18.2	15.2	8.2	10.1	7.4	11.8	.3	1409

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

TABLE 8

AREA 0012 ACCRA
3.2N .3W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.4	
2<5	PCP	.0	.1	.1	.1	.3	.2	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.1	.1	.1	.5	.1	.0	.0	.0	.9	
	TOT %	.0	.1	.2	.2	.4	.7	.1	.0	.0	.0	1.6	
5<10	PCP	.1	.1	.2	.5	1.0	.5	.2	.1	.0	.1	2.6	
	NO PCP	.6	.4	.9	1.7	4.0	4.3	2.7	.2	.0	.3	15.1	
	TOT %	.6	.5	1.1	2.2	5.0	4.8	2.9	.2	.0	.3	17.7	
10+	PCP	.1	.0	.1	.1	1.0	.5	.4	*	.0	.0	2.1	
	NO PCP	.9	.6	2.1	13.6	34.6	15.9	5.8	1.5	.0	.0	77.9	
	TOT %	1.0	.6	2.3	13.8	35.6	16.4	6.2	1.5	.0	.0	80.0	
TOT OBS													1588
TOT PCT		1.7	1.2	3.7	16.3	41.2	22.0	9.2	1.7	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	.1	.1	.0	.0	.0	.7	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.0	*	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.1	.0	*	.0	.0	.2	
	11-21	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	TOT %	*	*	*	*	.1	.2	*	.1	.0	.0	.5	
2<5	0-3	.0	.0	*	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	*	.1	.1	.4	.4	.3	.1	.0	.0	1.4	
	11-21	*	.0	*	*	*	.3	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	*	.2	.2	.4	.8	.3	.1	.0	.0	2.1	
5<10	0-3	*	*	*	.2	.2	.3	.2	.0	.0	.3	1.5	
	4-10	.3	.2	.4	1.2	2.8	2.9	2.0	.2	.0	.0	9.9	
	11-21	.1	.1	.2	.5	1.6	1.4	.7	*	.0	.0	4.7	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.5	.4	.8	1.9	4.6	4.6	2.9	.2	.0	.3	16.1	
10+	0-3	.5	.2	.4	1.1	2.2	1.2	.7	.3	.0	2.9	9.6	
	4-10	.8	.6	1.3	7.3	21.3	14.5	5.1	1.2	.0	.0	51.9	
	11-21	.0	.1	.5	3.8	8.4	3.9	1.5	.1	.0	.0	18.3	
	22+	.0	.0	.0	*	.3	.1	.1	.0	.0	.0	.5	
	TOT %	1.4	.9	2.2	12.3	32.2	19.6	7.3	1.6	.0	2.9	80.3	
TOT OBS													2143
TOT PCT		1.9	1.3	3.3	14.4	37.3	25.2	10.5	2.0	.0	3.9	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1866-1976

MAY

AREA 0012 ACCRA
3.2N .3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.3	.3	6.0	12.7	6.7	2.3	1.0	.3	1.0	31.0	69.0	300
06009	.3	.0	1.6	8.0	13.2	10.4	2.7	.5	.0	1.6	38.5	61.5	364
12015	.3	.0	1.1	7.4	13.9	11.8	1.1	1.3	.0	1.1	37.9	62.1	380
18021	.3	.0	1.2	7.0	15.5	8.8	2.1	1.2	.3	1.5	38.4	61.6	341
TOT	4	3	15	99	192	133	28	14	2	18	508	877	1385
PCT	.3	.2	1.1	7.1	13.9	9.6	2.0	1.0	.1	1.3	36.7	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.2	1.0	1.6	19.0	77.5	612
06009	1.3	.2	.8	2.5	10.9	84.3	477
12015	.2	.0	.2	1.7	17.4	80.6	598
18021	1.2	.2	.0	2.5	16.0	80.1	512
TOT	18	3	11	45	354	1768	2199
PCT	.8	.1	.5	2.0	16.1	80.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	1.0	8.4	24.0	67.6	287
06009	.3	1.9	11.4	28.1	60.4	359
12015	.3	1.4	10.1	28.8	61.1	368
18021	.3	2.4	10.6	29.6	59.8	331
TOT	4	23	137	374	834	1345
PCT	.3	1.7	10.2	27.8	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.3	.1	.0	.0	5	.4
85/89	.0	.0	.0	.0	.5	3.9	1.2	.0	74	5.6
80/84	.0	.0	.0	.0	1.7	27.7	40.7	5.3	993	75.3
75/79	.0	.0	.0	.0	.2	1.8	10.2	5.3	230	17.5
70/74	.0	.0	.0	.0	.0	.2	.2	.8	15	1.1
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	0	0	35	443	690	150	1318	100.0
PCT	.0	.0	.0	.0	2.7	33.6	52.4	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.2	*	.1	.0	.0	.1
.1	.0	.2	1.3	1.7	1.4	.4	.0	.0	.5
.9	.5	2.0	13.1	33.5	16.2	6.4	.9	.0	1.9
.5	.4	.8	2.0	8.5	3.7	1.0	.5	.0	.2
.1	.1	.1	.3	.3	.1	.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
1.6	.9	3.1	16.7	44.3	21.5	8.0	1.4	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	84	83	81	77	73	70	80.5	860
06009	88	86	84	81	77	73	69	80.7	561
12015	95	90	87	82	77	74	73	82.4	818
18021	93	87	84	81	76	73	68	81.1	633
TOT	95	88	85	81	77	73	68	81.2	2872

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.5	24.8	59.7	14.0	83	335
06009	.0	.0	.9	27.4	56.1	15.5	83	328
12015	.0	.0	5.9	45.0	42.6	6.4	80	373
18021	.0	.0	2.2	36.3	51.9	9.6	82	322
TOT	0	0	37	458	710	153	82	1358

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1868-1976

MAY

AREA 0012 ACCRA
3.2N .3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WU FOG
11/13	.0	.0	.0	.0	.1	.0	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.2	.0	.0	3	.0	.2
7/8	.0	.0	.0	.0	.1	.1	.1	.0	5	.0	.3
6	.0	.0	.0	.1	.0	.1	.1	.0	4	.0	.3
5	.0	.0	.0	.0	.1	.3	.3	.0	9	.0	.6
4	.0	.0	.0	.0	.3	.4	.2	.0	14	.0	.9
3	.0	.0	.0	.1	.4	.6	.0	.0	17	.0	1.1
2	.0	.0	.0	.4	1.7	1.4	.0	.0	52	.0	3.4
1	.0	.0	.0	.5	4.0	1.5	.0	.0	90	.0	6.0
0	.0	.0	.1	2.1	12.0	.9	.0	.0	227	.0	15.0
-1	.0	.0	.1	2.8	15.4	.7	.0	.0	288	.1	18.9
-2	.1	.0	.2	5.6	14.1	.3	.0	.0	306	.1	20.2
-3	.0	.0	.2	6.1	6.7	.2	.0	.0	199	.0	13.2
-4	.0	.0	.0	4.0	4.5	.1	.0	.0	130	.0	8.6
-5	.0	.1	.2	3.2	2.0	.0	.0	.0	83	.0	5.5
-6	.0	.1	.3	1.6	.3	.0	.0	.0	35	.0	2.3
-7/-8	.0	.0	.7	1.1	.2	.0	.0	.0	30	.0	2.0
-9/-10	.0	.0	.5	.3	.1	.0	.0	.0	12	.0	.8
-11/-13	.0	.1	.2	.0	.0	.0	.0	.0	4	.0	.3
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	4	38	420	935	100	13	1	1512	3	1509
PCT	.1	.3	2.5	27.8	61.8	6.6	.9	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.2	.0	.0	.0	.0	.8	.1	.1	.1	.0	.0	.0	.0	.2	.2
1-2	.0	.7	.0	.0	.0	.0	.7	.1	.4	.1	.0	.0	.0	.0	.6	.6
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.2	*	.0	.0	.0	.0	.2	.2
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	.0	*	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.2	.1	.1	.0	.0	2.0	.2	.7	.1	*	.0	.0	.0	1.1	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.5	.0	.0	.0	.0	1.1	.4	1.2	.0	.0	.0	.0	.0	1.7	
1-2	.0	.8	.0	.0	.0	.0	.8	.4	5.6	.9	.0	.0	.0	.0	8.9	
3-4	.1	.5	.6	.0	.0	.0	1.2	*	2.3	3.4	.1	.0	.0	.0	5.8	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	*	1.2	.0	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	1.9	.8	.0	.0	.0	3.4	.8	9.2	5.9	.1	.0	.0	.0	16.0	

PERIOD: (OVER-ALL) 1963-1976

MAY

TABLE 18 (CONT)

AREA 0012 ACCRA
3.2N .3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	4.6	.0	.0	.0	.0	4.9	.7	3.5	.2	.0	.0	.0	4.3
1-2	1.0	16.2	2.7	.0	.0	.0	19.9	.4	7.7	1.6	.0	.0	.0	9.7
3-4	.3	6.1	6.4	.1	.0	.0	12.9	.0	2.3	2.8	.1	.0	.0	5.1
5-6	.0	1.1	3.8	.2	.0	.0	5.1	.0	.1	.6	*	.0	.0	.8
7	.0	.5	.7	.2	.0	.0	1.4	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	28.5	13.9	.5	.0	.0	44.4	1.1	13.6	5.2	.1	.0	.0	20.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.8	.0	.0	.0	.0	2.1	.1	.8	.0	.0	.0	.0	.9	
1-2	.1	3.6	.6	.0	.0	.0	4.4	.1	.5	.0	.0	.0	.0	.7	
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.3	*	.0	.0	.0	.4	
5-6	.0	.2	.1	.0	.0	.0	.3	.0	*	.1	.0	.0	.0	.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	6.1	1.5	.0	.0	.0	8.1	.2	1.7	.1	.0	.0	.0	2.1	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	12.6	.2	.0	.0	.0	19.3	
1-2	2.5	35.8	5.9	.0	.0	.0	44.2	
3-4	.4	12.2	13.7	.3	.0	.0	26.5	
5-6	.0	1.6	6.0	.2	.0	.0	7.7	
7	.0	.5	1.1	.2	.0	.0	1.8	
8-9	.0	.0	.2	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	62.6	27.1	.8	.0	.0	100.0	1025

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	12.5	10.5	5.9	1.7	.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	447	3
6-7	.0	3.6	12.5	6.1	2.8	.9	.4	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	338	4
8-9	.0	.9	2.8	3.5	2.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	5
10-11	.0	1.6	1.4	2.0	.2	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	4
12-13	.0	.0	2.5	.9	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
>13	.0	.0	.0	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
INDET	4.3	4.0	5.9	2.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	2
TOTAL	105	284	450	263	105	32	15	2	4	0	0	0	0	0	0	0	0	0	0	1264	4
PCT	8.3	22.5	35.6	20.8	8.3	2.5	1.2	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

JUNE

AREA 0012 ACCRA
3.4N .3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.5	5.4	60.0	30.6	1.4	.0	.0	.0	9.2	100.0	831
06009	2.7	5.1	56.3	34.5	1.4	.0	.0	.0	9.6	100.0	513
12015	2.5	5.5	56.5	33.4	2.1	.0	.0	.0	9.4	100.0	749
18021	1.4	5.4	58.2	34.2	.9	.0	.0	.0	9.5	100.0	576
TOT	62	143	1546	878	40	0	0	0	9.4		2669
PCT	2.3	5.4	57.9	32.9	1.5	.0	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.2	.1		6.0
NE	.2	*	*	.2		4.9
E	.1	.3	.8	.2		5.3
SE	2.5	2.9	4.9	2.9		5.0
S	6.8	10.9	20.0	13.9		5.4
SW	3.5	4.8	9.6	8.5		5.5
W	.6	.7	1.4	1.2		5.4
NW	.1	.1	.5	.5		6.2
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.5	.4		4.3
TOT OBS	163	227	428	314	1132	
TOT PCT	14.4	20.1	37.8	27.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
NE	.0	.0	.1	.1	.0	*	.0	.0	.0	.0	.2	
E	.0	.0	.1	.0	.1	.6	.0	.0	.0	.0	.7	
SE	.0	.1	.2	.7	2.6	1.5	.3	.2	.0	.1	7.4	
S	.2	.1	.5	4.2	9.5	6.6	2.7	.4	.1	.9	26.4	
SW	.0	*	.4	3.2	5.0	3.3	1.1	.2	*	.2	13.0	
W	.0	.0	.0	.4	.7	.6	.2	.0	.0	.0	2.1	
NW	.0	.0	.0	.1	.4	.1	.1	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.3	.2	.0	.0	.0	.0	1.1	
TOT OBS	2	3	14	101	209	147	49	9	2	13	583	1132
TOT PCT	.2	.3	1.2	8.9	18.5	13.0	4.3	.8	.2	1.1	51.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	1.1	1.2	1.3	1.3	1.3	1.3	1.3
>5000	1.3	1.9	2.0	2.1	2.1	2.1	2.1	2.1
>3500	4.6	5.9	6.2	6.3	6.3	6.4	6.4	6.4
>2000	15.2	18.6	19.0	19.1	19.1	19.2	19.2	19.2
>1000	30.4	36.2	37.3	37.3	37.3	37.4	37.4	37.4
>600	36.5	44.6	46.1	46.2	46.2	46.3	46.3	46.3
>300	36.7	45.3	47.1	47.3	47.3	47.5	47.5	47.5
>150	36.7	45.5	47.3	47.6	47.6	47.8	47.8	47.8
>0	36.8	45.7	47.5	47.8	47.8	47.9	47.9	47.9
TOTAL	428	531	552	555	555	557	557	557

TOTAL NUMBER OF OBS: 1162

PCT FREQ NH <5/8: 52.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	6.0	6.2	12.8	13.7	12.7	9.5	13.5	7.6	17.8	.2	1240

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

JUNE

AREA 0012 ACCRA
3.4N .3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.3	
2<5	PCP	.0	.0	.1	.1	.4	.3	.2	.1	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.4	.3	.1	.0	.0	.1	.9	
	TOT %	.0	.0	.1	.1	.8	.6	.3	.1	.0	.1	2.2	
5<10	PCP	.0	.2	.1	.3	1.2	1.9	.6	.2	.0	.0	4.5	
	NO PCP	.3	.1	.3	2.3	6.2	5.2	2.0	.6	.0	.3	17.1	
	TOT %	.3	.3	.4	2.6	7.4	7.1	2.6	.8	.0	.3	21.6	
10+	PCP	.0	.0	.1	.2	.8	.7	.1	.0	.0	.0	1.8	
	NO PCP	.4	.3	1.2	9.5	38.8	18.6	2.8	.6	.0	1.6	73.8	
	TOT %	.4	.3	1.2	9.7	39.5	19.3	2.9	.6	.0	1.6	75.6	
TOT OBS													1488
TOT PCT		.6	.6	1.7	12.4	47.9	27.3	5.8	1.6	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	*	*	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	*	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	*	.1	.1	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	*	.1	.2	.0	.0	.0	.0	.4	
2<5	0-3	.0	*	*	.0	*	*	.0	*	.0	.1	.2	
	4-10	.0	.0	.0	*	.5	.3	.2	.1	.0	.0	1.2	
	11-21	.0	.0	*	*	.3	.5	.2	.0	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.1	
	TOT %	.0	*	.1	.1	.9	1.0	.4	.1	.0	.1	2.7	
5<10	0-3	*	*	.1	.3	.4	.3	.1	*	.0	.4	1.8	
	4-10	.2	.2	.1	1.6	3.2	3.8	1.5	.4	.0	.0	11.1	
	11-21	.0	*	.1	.4	3.1	2.6	.8	.2	.0	.0	7.2	
	22+	.0	.0	.0	*	.1	.2	.0	.0	.0	.0	.4	
	TOT %	.2	.3	.4	2.3	6.9	6.9	2.5	.7	.0	.4	20.5	
10+	0-3	.1	.1	.5	.3	1.5	.8	.3	.1	.0	2.2	5.8	
	4-10	.4	.4	.9	5.6	18.9	14.3	3.5	.7	.0	.0	44.7	
	11-21	.0	*	.2	2.7	13.8	6.4	1.7	.2	.0	.0	24.9	
	22+	.0	.0	.0	.2	.6	*	.0	.0	.0	.0	.8	
	TOT %	.4	.5	1.5	8.7	34.7	21.5	5.5	1.0	.0	2.2	76.2	
TOT OBS													2067
TOT PCT		.6	.9	2.0	11.2	42.6	29.7	8.4	1.9	.0	2.7	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

JUNE

AREA 0012 ACCRA
3.4N .3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.1	8.4	13.6	12.5	2.9	1.1	.0	1.1	40.7	59.3	273
06009	.7	.0	2.0	9.1	20.5	13.1	5.7	1.0	.3	1.3	53.7	46.3	298
12015	.0	.6	.9	8.3	17.8	10.4	3.7	.3	.0	1.2	43.3	56.7	326
18021	.0	.3	.7	8.7	18.8	14.1	4.4	.7	.3	.7	48.7	51.3	298
TOT PCT	2 .2	3 .3	14 1.2	103 8.6	212 17.7	149 12.5	50 4.2	9 .8	2 .2	13 1.1	557 46.6	638 53.4	1195 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.6	2.8	22.4	74.2	616
06009	.5	.0	.5	2.3	20.3	76.5	443
12015	.2	.0	.3	2.9	21.4	75.2	580
18021	.2	.0	.2	2.3	17.2	80.1	472
TOT PCT	4 .2	0 .0	9 .4	55 2.6	433 20.5	1610 76.3	2111 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.1	11.1	31.8	57.1	261
06009	.7	3.1	13.7	41.0	45.4	293
12015	.0	1.6	11.3	33.2	55.5	319
18021	.0	1.0	11.8	38.8	49.5	289
TOT PCT	2 .2	20 1.7	139 12.0	421 36.2	602 51.8	1162 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.2	.0	.6	.0	.0	9	.8
80/84	.0	.0	.0	.0	1.2	16.1	21.8	2.8	496	41.9
75/79	.0	.0	.0	.0	.6	10.8	27.7	11.5	599	50.6
70/74	.0	.0	.0	.1	.3	3.0	3.3	.0	80	6.8
TOTAL	0	0	2	22	330	622	208	1184	100.0	
PCT	.0	.0	.0	.2	1.9	27.9	52.5	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.4	.2	.1	.0	.0	.0
.2	.2	1.0	4.6	19.9	13.0	1.4	.6	.0	1.0
.3	.1	.5	6.9	25.8	12.8	2.7	.7	.0	.8
.0	.3	.1	1.8	3.5	.8	.2	.1	.0	.1
.5	.6	1.6	13.3	49.7	26.8	4.3	1.3	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	84	82	78	74	72	71	78.2	841
06009	89	84	82	78	73	72	72	78.2	516
12015	90	87	84	80	75	73	70	79.7	755
18021	88	84	82	79	74	73	72	78.8	579
TOT	90	86	82	79	74	72	70	78.7	2691

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	1.2	21.3	56.2	21.0	84	333
06009	.0	.0	.7	23.8	52.7	22.8	84	281
12015	.0	.3	3.1	38.6	44.4	13.6	82	324
18021	.0	.0	2.1	25.0	57.4	15.5	83	284
TOT	0	2	22	334	642	222	83	1222

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PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

TABLE 17

AREA 0012 ACCRA
3.4N .3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.1	.1	.2	.0	7	.0	.5
6	.0	.0	.1	.1	.1	.0	5	.0	.4
5	.0	.0	.2	.2	.1	.1	8	.0	.6
4	.0	.1	.4	.4	.3	.0	17	.0	1.2
3	.1	.1	.7	.3	.1	.0	16	.0	1.2
2	.0	.4	1.7	1.2	.4	.0	51	.0	3.7
1	.1	1.2	3.4	2.9	.1	.0	105	.0	7.6
0	.2	1.7	6.3	6.3	.3	.0	205	.1	14.8
-1	.1	2.2	9.1	7.5	.1	.0	264	.1	19.1
-2	.1	2.3	11.3	4.6	.0	.0	252	.2	18.1
-3	.1	1.5	9.2	1.9	.0	.0	174	.0	12.6
-4	.0	2.0	5.7	1.2	.0	.0	122	.0	8.8
-5	.0	1.8	2.9	1.1	.0	.0	80	.0	5.8
-6	.1	1.5	.8	.1	.0	.0	35	.0	2.5
-7/-8	.1	1.2	.7	.0	.0	.0	27	.1	1.9
-9/-10	.1	.2	.1	.0	.0	.0	5	.0	.4
-11/-13	.1	.1	.0	.0	.0	.0	3	.0	.2
TOTAL	13	226	391	21	1	1379	6	1373	
PCT	.9	16.4	52.7	28.4	1.5	100.0	.4	99.6	

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.2	.1	.0	.0	.0	.3
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0	.4	.0	.3	.1	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	.8	.*	.0	.0	.0	.9
1-2	.0	.8	.1	.0	.0	.0	.9	.3	5.0	.6	.0	.0	.0	5.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2.6	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.1	.0	.0	.0	1.0	.4	7.4	4.1	.*	.0	.0	11.8

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0012 ACCKA
3.4N .3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	1.4	.1	.0	.0	.0		2.1	.4	3.2	.1	.0	.0	.0		3.7
1-2	.5	14.5	7.0	.0	.0	.0		22.0	.2	11.0	4.7	.0	.0	.0		15.9
3-4	.1	7.8	9.6	.0	.0	.0		17.5	.0	2.7	3.3	.1	.0	.0		6.1
5-6	.0	1.1	5.6	.1	.0	.0		6.8	.0	.1	1.1	.0	.0	.0		1.2
7	.0	.0	1.3	.0	.0	.0		1.9	.0	.0	.7	.2	.0	.0		1.1
8-9	.0	.1	.1	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.4	.1	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.3	24.9	24.2	.9	.0	.0		51.3	.6	17.1	10.0	.3	.0	.0		28.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.1	.0	.0	.0		.8	.1	.0	.0	.0	.0	.0		.1	
1-2	.0	1.2	.9	.0	.0	.0		2.1	.0	.3	.4	.0	.0	.0		.7	
3-4	.0	.3	.6	.0	.0	.0		.9	.0	.1	.2	.0	.0	.0		.4	
5-6	.0	.1	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
7	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	2.1	1.9	.0	.0	.0		4.1	.1	.5	.6	.0	.0	.0		1.2	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	6.4	.4	.0	.0	.0	10.8	
1-2	1.0	33.0	13.5	.0	.0	.0	47.5	
3-4	.1	12.0	16.1	.1	.0	.0	28.3	
5-6	.0	1.5	7.4	.1	.0	.0	9.0	
7	.0	.2	2.2	.8	.0	.0	3.2	
8-9	.0	.2	.1	.0	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.4	.1	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	53.3	40.4	1.2	.0	.0	100.0	911

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	13.1	11.5	3.8	1.9	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	3
6-7	.0	2.2	8.2	6.7	4.3	.6	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	5
8-9	.0	.1	2.7	3.3	2.5	.9	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	6
10-11	.0	1.5	.7	2.1	1.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
12-13	.0	.0	1.4	.4	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
>13	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
INDET	2.6	7.5	6.2	4.5	2.0	.5	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	265	3
TOTAL	62	272	342	237	142	38	12	1	10	0	0	0	0	0	0	0	0	0	0	1116	4
PCT	5.6	24.4	30.6	21.2	12.7	3.4	1.1	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975

JULY

AREA 0012 ACCRA
3.2N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	76.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	8.9	.0	.0	.0	.0	.0	8.9	.0	.0	.0	.0	.0	.0	91.1
SE	.8	1.8	.7	.0	.0	.0	.0	3.3	1.3	.0	.0	.0	1.1	.0	94.3
S	.5	.8	.1	.0	.0	.0	.0	1.4	1.8	.3	.1	.0	.6	.1	95.7
SW	2.5	2.4	.0	.0	.0	.0	.0	4.8	2.6	.3	1.2	.0	.9	.0	90.1
W	3.0	2.6	.0	.0	.0	.0	.0	5.6	.6	.0	6.7	.0	2.2	.0	84.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	5.9	.0	.0	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	4.2	8.3	.0	.0	.0	83.3
TOT PCT	1.4	1.6	.1	.0	.0	.0	.0	3.1	1.9	.4	1.1	.0	.8	.1	92.7
TOT OBS:	1670														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHW	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG SNOW	NO SIG WEA
0000	1.1	1.1	.0	.0	.0	.0	.0	2.2	1.6	1.1	1.1	.0	.7	.0	93.3
0600	2.3	1.8	.3	.0	.0	.0	.0	4.4	2.6	.0	1.6	.0	.8	.0	90.6
1200	1.3	1.8	.2	.0	.0	.0	.0	3.3	1.8	.0	.2	.0	1.1	.2	93.4
1800	1.0	1.5	.0	.0	.0	.0	.0	2.4	1.9	.2	1.5	.0	1.0	.0	93.0
TOT PCT	1.4	1.5	.1	.0	.0	.0	.0	3.1	1.9	.4	1.1	.0	.9	.1	92.7
TOT OBS:	1704														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.1	*	.0	.0	.0		.4	4.7		.4	.9	.0	1.0	.2	.2	.5	.0
NE	*	.1	*	.0	.0	.0		.1	7.6		.1	.5	.0	.0	.0	.4	.1	.0
E	.1	.6	*	.0	.0	.0		.7	6.4		.7	1.1	.3	.7	.5	.8	.6	1.0
SE	.6	5.3	2.9	.0	.0	.0		8.8	9.3		9.9	6.2	9.1	5.4	10.3	5.7	11.1	8.7
S	2.7	25.2	15.1	.4	.0	.0		43.3	9.6		41.9	31.5	48.4	35.8	47.4	41.4	54.3	39.0
SW	1.7	21.4	11.5	.6	*	.0		35.2	9.9		34.7	39.7	32.1	37.7	31.0	43.2	30.3	39.9
W	.7	5.9	1.6	.1	.0	.0		8.3	8.2		8.8	12.4	6.8	15.4	7.9	7.6	2.3	8.3
NW	.2	.4	.2	*	.0	.0		.7	8.6		.2	2.2	.5	2.1	1.3	.0	.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		3.3	5.5	2.8	1.9	1.3	.8	.6	3.0
TOT OBS	243	1652	880	32	1	0	2808		9.3		578	273	319	210	526	258	341	303
TOT PCT	8.7	58.8	31.3	1.1	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.2	.1	.0	.0	.0		.4	4.7	.6	.4	.2	.3	
NE	.1	.1	.0	.0	.0		.1	7.6	.3	.0	.1	*	
E	.4	.3	.0	.0	.0		.7	6.4	.8	.5	.6	.8	
SE	2.6	5.5	.7	.0	.0		8.8	9.3	8.7	7.6	8.8	10.0	
S	11.8	28.3	3.2	.0	.0		43.3	9.6	38.5	43.4	45.4	57.1	
SW	9.0	23.0	3.2	*	*		35.2	9.9	36.3	34.4	35.0	34.8	
W	3.1	4.9	.3	.0	.0		8.3	8.2	10.0	10.2	7.8	5.1	
NW	.4	.2	.1	.0	.0		.7	8.6	.8	1.1	.9	.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	4.0	2.5	1.1	1.7	
TOT OBS	841	1752	213	1	1	2808		9.3	851	529	784	644	
TOT PCT	30.0	62.4	7.6	*	*		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975

JULY

AREA 0012 ACCRA
3.2N .3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
DIR	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.3	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.3
SE	2.2	1.9	3.4	2.3	4.8	5.0	5.5	5.9	6.2	6.0	.0	.1
S	10.8	10.0	19.6	13.2	5.0	.1	.0	.4	3.6	10.8	6.7	1.8
SW	4.7	4.6	10.1	10.5	5.5	.0	.0	.3	2.3	4.8	5.6	1.1
W	.6	.5	1.3	1.9	5.9	.0	.0	.1	.3	.8	1.0	.1
NW	.0	.1	.2	.1	6.2	.0	.0	.0	.1	.0	.0	.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.5	.2	.2	4.5	.0	.0	.1	.1	.1	.0	.1
TOT OBS	244	228	452	368	1292	1	11	89	241	188	47	16
TOT PCT	18.9	17.6	35.0	28.5	100.0	.1	.0	.9	6.9	18.7	14.6	3.6

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.1	.1	6.7	.0
NE	.0	.0	.0	.0	2.5	.0
E	.3	.0	.1	.1	2.7	.0
SE	2.2	1.9	3.4	2.3	4.8	.0
S	10.8	10.0	19.6	13.2	5.0	.1
SW	4.7	4.6	10.1	10.5	5.5	.0
W	.6	.5	1.3	1.9	5.9	.0
NW	.0	.1	.2	.1	6.2	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	.2	.5	.2	.2	4.5	.0
TOT OBS	244	228	452	368	1292	5.2
TOT PCT	18.9	17.6	35.0	28.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.3	.0	.1	.1	.1	.1	.1	.0	.0	.0	.3
SE	2.2	1.9	3.4	2.3	4.8	5.0	5.5	5.9	6.2	6.0	.1
S	10.8	10.0	19.6	13.2	5.0	.1	.0	.4	3.6	10.8	6.7
SW	4.7	4.6	10.1	10.5	5.5	.0	.0	.3	2.3	4.8	5.6
W	.6	.5	1.3	1.9	5.9	.0	.0	.1	.3	.8	1.0
NW	.0	.1	.2	.1	6.2	.0	.0	.0	.1	.0	.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.5	.2	.2	4.5	.0	.0	.1	.1	.1	.0
TOT OBS	244	228	452	368	1292	1	11	89	241	188	47
TOT PCT	18.9	17.6	35.0	28.5	100.0	.1	.0	.9	6.9	18.7	14.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	2.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OR >5000	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >3500	5.8	7.5	7.6	7.6	7.6	7.6	7.6	7.6
OR >2000	16.6	21.3	21.8	21.8	21.8	21.8	21.8	21.8
OR >1000	31.5	39.5	40.5	40.5	40.5	40.5	40.5	40.5
OR >600	36.6	46.1	47.4	47.4	47.4	47.4	47.4	47.4
OR >300	37.3	46.9	48.2	48.2	48.2	48.2	48.2	48.2
OR >150	37.3	46.9	48.2	48.2	48.2	48.2	48.2	48.2
OR >0	37.4	47.0	48.3	48.3	48.3	48.3	48.3	48.3
TOTAL	490	616	633	633	633	633	633	633

TOTAL NUMBER OF OBS: 1310

PCT FREQ NH <5/8: 51.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
8.0	7.5	12.6	11.9	11.3	9.0	8.6	9.6	21.5	.1	1381

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975

JULY

AREA 0012 ACCRA
3.2N .3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	*	.0	.1	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.1	*	.0	.1	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.2	
2<5	PCP	.0	.0	.0	*	.1	.3	.2	.0	.0	.1	.7	
	NO PCP	.0	.0	.0	.0	.1	.3	.1	.1	.0	.1	.7	
	TOT %	.0	.0	.0	*	.3	.7	.3	.1	.0	.1	1.4	
5<10	PCP	.0	.0	.1	.2	.3	.7	.2	.0	.0	.0	1.4	
	NO PCP	.1	.1	.2	1.4	7.3	10.7	3.4	.1	.0	.4	23.8	
	TOT %	.1	.1	.3	1.6	7.6	11.5	3.6	.1	.0	.4	25.2	
10+	PCP	.0	.0	.0	.1	.2	.5	*	.0	.0	.0	.8	
	NO PCP	.1	*	.4	7.5	40.3	19.7	2.9	.3	.0	.8	72.1	
	TOT %	.1	*	.4	7.6	40.6	20.2	2.9	.3	.0	.8	72.9	
TOT OBS													1669
TOT PCT		.3	.1	.7	9.2	48.4	32.5	6.9	.5	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	.1	.1	*	.0	*	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	.1	*	.0	.0	.1	.3	
2<5	0-3	.0	.0	.0	.0	.1	.1	*	.0	.0	.2	.5	
	4-10	.0	.0	.0	*	.2	.4	.1	.0	.0	.0	.7	
	11-21	*	*	.0	.0	.1	.3	.1	*	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	*	.4	.7	.2	*	.0	.2	1.7	
5<10	0-3	.1	*	.0	.1	1.0	.9	.3	*	.0	.6	3.1	
	4-10	.0	*	.3	1.1	3.4	6.0	2.2	.1	.0	.0	13.1	
	11-21	.0	.0	.0	.1	2.3	3.8	.8	.0	.0	.0	7.1	
	22+	.0	.0	.0	.0	.1	.3	.1	*	.0	.0	.6	
	TOT %	.1	.1	.3	1.4	6.8	11.1	3.4	.1	.0	.6	23.9	
10+	0-3	.1	*	.1	.4	1.8	.8	.1	*	.0	1.1	4.5	
	4-10	.1	*	.3	4.1	22.2	13.8	2.6	.2	.0	.0	43.4	
	11-21	.0	.0	.0	2.6	14.3	7.7	.8	.1	.0	.0	25.5	
	22+	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.5	
	TOT %	.2	*	.4	7.2	38.5	22.6	3.5	.3	.0	1.1	73.8	
TOT OBS													2191
TOT PCT		.3	.1	.7	8.6	45.8	34.6	7.2	.5	.0	2.1	100.0	

JULY

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975AREA 0012 ACCRA
3.2N .3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00603	.3	.0	1.0	6.4	14.9	10.8	3.0	.3	.7	4.1	41.6	58.4	296
06609	.0	.0	1.2	8.0	21.8	16.9	3.7	1.8	1.2	2.2	56.9	43.1	325
12615	.0	.0	.8	6.6	18.6	15.9	5.2	1.4	.5	.3	49.3	50.7	365
18621	.0	.0	.3	5.9	17.5	12.1	2.3	1.1	.6	1.4	41.1	58.9	355
TOT	1	0	11	90	245	188	48	16	10	25	634	707	1341
PCT	.1	.0	.8	6.7	18.3	14.0	3.6	1.2	.7	1.9	47.3	52.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00603	.0	.5	.2	1.2	27.9	70.2	645
06609	.2	.4	.7	1.8	24.6	72.3	455
12615	.0	.0	.0	1.8	24.3	73.9	602
18621	.0	.2	.6	1.9	19.1	78.2	523
TOT	1	6	7	37	538	1636	2225
PCT	*	.3	.3	1.7	24.2	73.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND 5+		OBS
00603	.3	1.4	8.3	34.3	57.4	289
06609	.0	1.3	11.0	47.6	41.3	317
12615	.0	.8	9.6	41.0	49.4	356
18621	.0	.3	7.5	34.8	57.8	348
TOT	1	12	119	517	674	1310
PCT	.1	.9	9.1	39.5	51.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
80/84	.0	.0	.0	.0	1.4	4.5	4.0	.5	139	10.5
75/79	.0	.0	.0	.1	1.6	20.0	35.6	12.3	919	69.5
70/74	.0	.0	.0	.0	.3	3.9	8.4	7.0	260	19.7
65/69	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	0	0	1	44	379	635	263	1322	100.0
PCT	.0	.0	.0	.1	3.3	28.7	48.0	19.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
00603	.0	.0	.0	.0	.2	.0	.0	.0	.0
06609	.1	.1	.1	.5	5.2	3.6	.8	.1	.1
12615	.2	.1	.4	6.1	36.5	21.3	3.9	.3	.8
18621	.0	.0	.2	3.4	10.7	4.4	.5	.1	.3
TOT	.0	.0	.0	.1	.0	.0	.0	.0	.0
PCT	.3	.1	.7	10.0	52.5	29.5	5.2	.5	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00603	84	80	79	76	72	70	67	75.6	860
06609	88	82	80	76	72	70	70	75.9	533
12615	91	85	82	78	73	71	67	77.7	781
18621	86	82	80	77	72	71	68	76.4	646
TOT	91	83	81	77	72	70	67	76.4	2820

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00603	.0	.3	.6	20.2	51.8	27.1	85	361
06609	.0	.0	3.0	28.2	43.9	24.9	84	305
12615	.0	.0	5.5	38.8	44.0	11.8	81	348
18621	.0	.0	4.2	27.5	50.5	17.8	83	331
TOT	0	1	44	385	641	274	83	1345

JULY

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1895-1975

TABLE 17

AREA 0012 ACCRA
3.2N .3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.1	.1	.1	.0	.0	5	.0	.3
7/8	.0	.0	.2	.1	.3	.1	.0	11	.1	.6
6	.0	.0	.3	.1	.1	.1	.0	9	.1	.5
5	.0	.1	.3	.6	.3	.0	.0	21	.1	1.3
4	.0	.1	.3	.8	.6	.0	.0	28	.2	1.6
3	.0	.1	1.1	.8	.6	.0	.0	42	.1	2.6
2	.0	.4	1.2	2.8	.9	.1	.0	87	.2	5.3
1	.0	.4	4.0	5.6	1.0	.1	.0	176	.0	11.0
0	.0	.6	5.6	9.0	1.0	.1	.0	258	.1	16.1
-1	.0	.8	6.8	8.5	.7	.0	.0	266	.2	16.5
-2	.0	1.2	6.3	7.7	.4	.0	.0	248	.1	15.5
-3	.0	.8	5.5	3.8	.1	.0	.0	163	.1	10.2
-4	.0	.8	4.8	3.5	.2	.0	.0	146	.0	9.2
-5	.0	.4	3.0	1.6	.1	.0	.0	81	.0	5.1
-6	.0	.0	1.1	.3	.0	.0	.0	22	.0	1.4
-7/-8	.0	.1	1.0	.2	.0	.0	.0	21	.0	1.3
-9/-10	.0	.1	.2	.1	.0	.0	.0	6	.0	.4
-11/-13	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	93	662	727	104	5	1	1593	17	1576
PCT	.1	5.8	41.6	45.6	6.5	.3	.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.0	.0	.0	.0	.0	.1	.0	.6	.*	.*	.0	.0	.6
1-2	.0	.2	.0	.0	.0	.0	.2	.2	3.0	.8	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.*	.*	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.0	.0	.0	.0	.3	.2	5.4	3.5	.0	.0	.0	9.1

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0012 ACCRA
3.2N .3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	2.4	.6	.0	.0	.0		4.0	.7	1.8	.1	.0	.0	.0		2.6
1-2	.6	18.3	5.4	.0	.0	.0		24.2	.1	9.5	1.9	.0	.0	.0		11.5
3-4	.1	6.8	8.8	.1	.0	.0		15.8	.0	2.9	7.0	.4	.0	.0		10.3
5-6	.0	2.5	7.0	.1	.0	.0		9.6	.0	1.0	2.9	.2	.0	.0		4.1
7	.0	.0	1.3	.1	.0	.0		1.4	.0	.0	.4	.0	.0	.0		.4
8-9	.0	.1	.2	.1	.0	.0		.4	.0	.0	.2	.1	.0	.0		.3
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.7	30.1	23.2	.4	.0	.0		55.4	.8	15.2	12.4	.8	.1	.0		29.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.5	.0	.0	.0	.0		.7	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	1.2	.4	.0	.0	.0		1.5	.0	.0	.1	.0	.0	.0		.1	
3-4	.0	.7	.6	.0	.0	.0		1.2	.0	.1	.0	.1	.0	.0		.2	
5-6	.0	.1	.5	.0	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.4	1.5	.0	.0	.0		4.1	.0	.1	.1	.1	.0	.0		.3	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	5.2	.7	.0	.0	.0	9.5	
1-2	1.1	32.2	8.4	.0	.0	.0	41.8	
3-4	.1	11.7	17.8	.6	.0	.0	30.2	
5-6	.0	4.0	11.1	.3	.0	.0	15.3	
7	.1	.0	2.0	.1	.0	.0	2.2	
8-9	.0	.1	.4	.2	.0	.0	.7	
10-11	.0	.0	.1	.0	.1	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	53.2	40.6	1.3	.1	.0	100.0	959

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	12.6	13.3	5.6	.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	430	3
6-7	.0	2.0	11.4	9.3	5.5	1.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	363	5
8-9	.0	.3	2.4	3.8	2.5	.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	5
10-11	.0	1.5	1.4	2.1	.8	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	4
12-13	.0	.0	1.2	.4	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
INLET	2.3	3.6	5.8	2.6	.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	3
TOTAL	54	243	430	293	130	32	18	8	2	0	0	0	0	0	0	0	0	0	0	1210	4
PCT	4.5	20.1	35.5	24.2	10.7	2.6	1.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1867-1975

AUGUST

AREA 0012 ACCRA
3.3N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	86.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	.0	11.8	.0	76.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	95.2
SE	.0	1.1	1.7	.0	.0	.0	.0	2.9	1.7	4.0	2.9	.0	2.3	.0	86.2
S	.1	.5	.5	.0	.0	.0	.0	1.2	1.6	.2	.7	.0	.5	.0	95.8
SW	1.3	.3	.8	.0	.0	.0	.0	2.2	3.2	1.0	2.3	.0	.6	.0	90.8
W	1.3	.4	.4	.0	.0	.0	.0	2.1	1.9	2.1	8.5	1.7	1.7	.0	82.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	92.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	21.9	3.1	.0	.0	71.9
TOT PCT	.7	.5	.7	.0	.0	.0	.0	1.7	2.2	1.0	2.5	.2	.8	.0	91.7
TOT OBS:	1526														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	.2	.2	.5	.0	.0	.0	.0	.9	2.1	3.0	4.0	.0	1.4	.0	88.5
06009	1.4	.5	.8	.0	.0	.0	.0	2.8	4.2	.3	3.1	.3	.8	.0	88.4
12015	.5	.7	.0	.0	.0	.0	.0	1.2	.7	.0	1.6	.5	.7	.0	95.3
18021	.6	.6	1.4	.0	.0	.0	.0	2.3	1.7	.6	.9	.0	.3	.0	94.3
TOT PCT	.6	.5	.6	.0	.0	.0	.0	1.7	2.1	1.0	2.4	.2	.8	.0	91.7
TOT OBS:	1558														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.2	*	*	.0	.0		.3	7.4	.1	1.4	.6	.8	.2	.2	.0	.0	
NE	.3	.1	.0	*	.0	.0		.4	3.7	.3	.9	.2	1.5	.4	.0	.1	.2	
E	.2	.4	*	.0	.0	.0		.7	5.3	.9	.9	.7	.3	.9	.4	.3	.5	
SE	.6	3.4	1.1	.0	.0	.0		5.1	8.0	6.2	5.2	5.6	4.3	5.7	3.0	3.6	4.7	
S	2.6	24.1	11.6	.2	.0	.0		38.5	9.1	36.2	29.3	47.5	34.8	41.0	32.7	49.7	31.5	
SW	3.8	23.8	11.2	.1	*	.0		39.1	8.8	41.4	37.9	33.5	35.6	36.6	45.6	39.4	42.6	
W	1.7	7.1	2.3	.0	.0	.0		11.2	7.7	9.6	14.9	8.5	13.9	11.6	15.5	5.9	13.6	
NW	.1	.4	*	.0	.0	.0		.6	6.6	.5	1.4	.5	.5	.4	1.0	.1	.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2							4.2	.0	4.8	8.1	2.9	8.2	3.1	1.6	1.0	6.4	
TOT OBS	355	1552	686	10	1	0	2604		8.3	547	221	306	196	514	248	290	282	
TOT PCT	13.6	59.6	26.3	.4	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	.2	.1	.0	*	.0		.3	7.4	.5	.6	.2	.0		
NE	.3	*	.0	*	.0		.4	3.7	.5	.7	.3	.1		
E	.5	.2	.0	.0	.0		.7	5.3	.9	.5	.7	.4		
SE	2.2	2.7	.1	.0	.0		5.1	8.0	5.9	5.1	4.9	4.2		
S	10.9	25.7	1.8	.0	.0		38.5	9.1	34.2	42.6	38.3	40.7		
SW	13.2	23.7	2.2	*	.0		39.1	8.8	40.4	34.3	39.5	41.0		
W	5.2	5.7	.3	.0	.0		11.2	7.7	11.1	10.6	12.9	9.7		
NW	.3	.3	.0	.0	.0		.6	6.6	.7	.5	.6	.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.2						4.2	.0	5.7	5.0	2.6	3.7		
TOT OBS	969	1518	115	2	0	2604		8.3	768	502	762	572		
TOT PCT	37.2	58.3	4.4	.1	.0		100.0		100.0	100.0	100.0	100.0		

AREA 0012 ACCRA
3.3N .3W

HOUR	CALM			WIND SPEED (KNOTS)			6+	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47					
000403	5.7	10.7	57.7	25.1	.8	.0	.0	8.0	100.0	768
000404	5.0	9.6	60.8	25.3	.2	.0	.0	8.3	100.0	762
120419	2.6	10.2	60.6	26.4	.1	.0	.0	8.3	100.0	502
130421	3.7	7.3	59.8	28.8	.2	.0	.0	8.0	100.0	572
TOT	110	245	1552	086	10	.0	.0	8.3		2604
PCT	4.2	9.4	59.6	26.3	.4	*		100.0		

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	.0	.0	.0	.1	8.0	4.8
NE	.0	.0	.1	.0	4.0	8.0
E	.2	.1	.1	.1	3.8	3.8
SE	1.5	1.0	1.7	1.6	4.8	4.8
S	8.9	9.2	17.5	15.4	5.3	5.3
SW	6.7	5.1	10.8	13.1	5.5	5.5
W	1.0	.3	1.6	1.6	5.5	5.5
NW	.0	.0	.1	.1	7.4	7.4
VAR	.0	.0	.0	.0	1.0	1.0
CALM	.3	.2	.1	.0	5.9	5.9
TOT OBS	225	192	388	397	1202	5.4
TOT PCT	18.7	16.0	32.3	33.0	100.0	

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.0	.0	.1	.0	.0	.0	.1	.0	.0	.0			.0
.0	.0	.0	.0	.0	.0	*	.0	.1	.0	*		.0
.0	.0	.0	.0	.1	.1	.1	.0	.0	.0			.3
.0	.0	.2	.4	1.0	.6	.2	.2	.1	.0			3.0
.1	.0	4.3	9.8	7.4	1.9	*	.3	.8	25.5			
.2	.2	.3	3.3	5.4	7.1	1.6	.3	.3	5.16.5			
.1	.1	.0	.2	.7	.4	.5	.1	.2	2.1			
*	.0	.0	.0	.0	*	.1	.0	.0	.0			.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
.1	.0	.0	.1	.5	.4	.2	.0	.0	.1	.7		
.6	3	181	1021	2094	194	55	6	11	19	578		1202
.5	.2	1.5	8.4	17.4	16.1	4.6	.7	9	1.6	48.1		100.0

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OR >5000	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >3500	6.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8
OR >2000	19.6	23.5	23.9	23.9	23.9	23.9	23.9	23.9
OR >1000	33.4	40.1	41.3	41.4	41.4	41.4	41.4	41.4
OR >600	39.8	48.1	49.7	49.8	49.8	49.8	49.8	49.8
OR >300	40.7	49.3	51.1	51.2	51.2	51.2	51.2	51.2
OR >150	40.7	49.5	51.4	51.5	51.5	51.5	51.5	51.5
OR > 0	40.7	49.8	51.7	51.8	51.8	51.9	51.9	51.9
TOTAL	497	608	631	632	632	633	633	633

PCT FREQ NH <5/8: 48.1

0	1	2	3	4	5	6	7	8	00SCD	TOTAL OBS
9.2	8.7	9.9	10.7	9.2	5.3	9.5	11.5	25.4	.5	1278

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1867-1975

AUGUST

AREA 0012 ACCRA
3.3M .3M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	*	.4	*	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.1	.4	*	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.2	.2	.6	.3	.0	.0	.0	.2	1.4
	TOT %	.0	.0	.0	.2	.2	.6	.3	.0	.0	.0	.2	1.5
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	*	.1	.0	.1	*	.0	.0	.0	.1	.4
	TOT %	.0	*	*	.1	.0	.1	*	.0	.0	.0	.1	.4
2<5	PCP	.0	.0	.0	*	.2	.1	.1	.0	.0	.0	.4	
	NO PCP	.1	.0	.0	.1	.4	.5	.2	.0	.0	.0	.2	1.4
	TOT %	.1	.0	.0	.2	.6	.6	.2	.0	.0	.0	.2	1.8
5<10	PCP	.0	.0	.0	*	.2	.5	.1	.0	.0	.0	.8	
	NO PCP	.1	.1	.3	1.2	5.0	9.2	3.6	.1	.0	.7	20.3	
	TOT %	.1	.1	.3	1.2	5.2	9.7	3.6	.1	.0	.7	21.1	
10+	PCP	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3	
	NO PCP	*	*	.3	4.0	39.2	26.5	3.2	.1	.0	.9	74.3	
	TOT %	*	*	.3	4.0	39.3	26.6	3.2	.1	.0	.9	74.6	
TOT OBS													1519
TOT PCT		.2	.2	.6	5.7	45.3	37.7	7.8	.2	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	.0	.1	.0	.0	.2	.3	
	4-10	.0	.0	.0	.0	.1	.1	.2	*	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.1	.1	.3	*	.0	.2	.7	
1/2<1	0-3	.0	.0	.0	.1	*	.1	.1	.0	.0	.2	.5	
	4-10	.0	.0	.0	.1	.2	.4	.1	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.2	.5	.3	.0	.0	.2	1.3	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	*	*	.1	.0	.1	*	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	.1	.0	.1	*	.0	.0	.1	.4	
2<5	0-3	.0	.1	*	.1	.1	.2	.1	.0	.0	.7	1.2	
	4-10	.1	.0	.0	.2	.5	.7	.1	.0	.0		1.5	
	11-21	.0	.0	.0	*	.2	.2	.1	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.1	*	.2	.8	1.1	.3	.0	.0	.7	3.2	
5<10	0-3	.1	.1	.1	.2	.7	1.6	.8	.0	.0	1.1	4.6	
	4-10	.1	*	.2	.9	4.2	5.7	2.3	.1	.0		13.5	
	11-21	.0	.0	.0	.2	1.0	2.7	.8	.0	.0		4.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.2	.2	1.2	5.9	10.0	3.8	.1	.0	1.1	22.7	
10+	0-3	*	*	.1	.2	1.8	2.0	.5	.1	.0	1.4	6.0	
	4-10	.0	*	.2	2.1	21.7	17.0	3.2	.1	.0		44.2	
	11-21	.0	.0	*	1.0	10.5	8.1	1.6	*	.0		21.2	
	22+	.0	.0	.0	.0	.2	.2	.0	.0	.0		.4	
	TOT %	*	.1	.3	3.3	34.1	27.3	5.2	.1	.0	1.4	71.8	
TOT OBS													1988
TOT PCT		.2	.3	.5	5.1	41.1	39.1	10.0	.3	.0	3.5	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1867-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	1.0	6.3	17.1	14.6	3.8	.0	.0	1.4	45.3	54.7	287
06009	.3	.3	2.9	11.8	26.2	18.5	7.3	.6	.6	2.2	70.9	29.1	313
12015	.3	.6	.6	6.1	13.4	17.7	3.2	1.2	1.5	1.2	45.6	54.4	344
18021	.3	.0	1.3	8.9	12.2	11.9	4.0	.7	1.3	1.7	42.2	57.8	303
TOT	6	3	18	103	214	197	57	8	11	20	637	610	1247
PCT	.5	.2	1.4	8.3	17.2	15.8	4.6	.6	.9	1.6	51.1	48.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.4	2.7	.2	3.4	27.4	65.0	585
06009	.9	.7	.7	5.0	19.7	73.0	422
12015	.4	.9	.5	2.6	21.9	73.7	567
18021	.0	.4	.2	1.8	20.2	77.4	446
TOT	14	26	8	64	457	1451	2020
PCT	.7	1.3	.4	3.2	22.6	71.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	2.2	10.1	37.7	52.2	276
06009	.3	3.5	18.1	53.5	28.4	310
12015	.0	1.2	8.0	37.8	54.2	336
18021	.3	1.7	12.4	30.9	56.7	298
TOT	5	26	148	489	583	1220
PCT	.4	2.1	12.1	40.1	47.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
80/84	.0	.0	.0	.0	.2	2.1	.6	.1	36	2.9
75/79	.0	.0	.0	.0	.5	13.7	35.7	12.3	783	62.2
70/74	.0	.0	.0	.0	.2	4.1	14.5	15.6	432	34.3
65/69	.0	.0	.0	.0	.0	.1	.2	.3	7	.6
TOTAL	0	0	0	0	10	252	641	356	1259	100.0
PCT	.0	.0	.0	.0	.8	20.0	50.9	28.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	.1	.0	.0	.0
.0	.0	.1	.2	1.0	1.3	.3	.0	.0	.0
.1	.1	.4	1.9	30.6	25.6	2.9	.1	.0	.6
*	.1	.3	3.7	17.3	8.8	2.8	*	.0	1.3
.0	.0	.0	.2	.1	.1	.1	.1	.0	.0
.2	.2	.8	6.0	49.0	35.7	6.1	.2	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	79	77	74	70	68	67	74.2	771
06009	82	79	77	75	71	69	68	74.5	505
12015	89	84	81	77	72	70	65	76.6	756
18021	86	81	79	75	72	70	68	75.2	573
TOT	89	82	79	75	71	69	65	75.2	2605

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.3	11.2	48.4	40.2	87	366
06009	.0	.0	.7	16.7	50.3	32.3	86	300
12015	.0	.0	1.5	31.9	49.0	17.6	82	335
18021	.0	.0	.7	18.9	56.6	23.8	85	286
TOT	0	0	10	252	654	371	85	1287

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1867-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.1	.0	.1	.0	3	.0	.2
9/10	.0	.0	.1	.1	.2	.1	.0	7	.1	.4
7/8	.0	.0	.2	.3	.2	.0	.0	11	.0	.8
6	.0	.0	.1	.5	.3	.0	.0	14	.0	1.0
5	.0	.2	.6	.1	.6	.0	.0	22	.1	1.4
4	.0	.1	.5	1.5	.6	.0	.1	40	.1	2.7
3	.0	.3	1.1	1.5	.3	.0	.0	46	.1	3.1
2	.0	.8	3.3	2.9	.6	.0	.0	109	.4	7.1
1	.0	1.0	8.7	5.1	.1	.0	.0	216	.8	14.2
0	.1	1.7	11.9	5.7	.1	.0	.0	281	.5	19.0
-1	.0	1.4	10.8	3.7	.1	.1	.0	231	.2	15.8
-2	.0	1.2	10.6	2.3	.3	.0	.0	208	.1	14.4
-3	.0	.6	6.6	.9	.0	.0	.0	117	.0	8.1
-4	.0	.7	4.1	.5	.0	.0	.0	76	.0	5.3
-5	.1	.4	2.2	.1	.0	.0	.0	40	.0	2.8
-6	.0	.1	.5	.1	.0	.0	.0	10	.0	.7
-7/-8	.0	.3	.3	.0	.0	.0	.0	9	.0	.6
-9/-10	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	130	888	366	49	5	1	1441	34	1407
PCT	.1	9.0	61.6	25.4	3.4	.3	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FY)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.5	.5
1-2	.0	.0	.1	.0	.0	.0	.1	.1	.1	2.1	.3	.0	.0	.0	2.5	2.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.9	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.3	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1	.3	2.7	1.2	.0	.0	.0	.0	4.2	4.2

PERIOD: (OVER-ALL) 1963-1975

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.7	.0	.0	.0	.0	4.7	1.6	1.8	.0	.0	.0	.0	3.4
1-2	.6	16.4	4.8	.0	.0	.0	21.8	.5	14.1	5.0	.0	.0	.0	19.6
3-4	.0	9.2	8.1	.1	.0	.0	17.4	.0	5.5	4.5	.1	.0	.0	10.0
5-6	.0	1.5	4.2	.3	.0	.0	6.0	.0	1.4	2.3	.1	.0	.0	3.7
7	.0	.7	.4	.0	.0	.0	1.0	.0	.3	1.0	.0	.1	.0	1.4
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	31.4	17.8	.4	.0	.0	51.2	2.1	23.1	12.8	.2	.1	.0	38.3

HGT	M							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.5	.1	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.1	1.5	.8	.0	.0	.0	2.4	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.5	.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.5	1.2	.0	.0	.0	3.9	.0	.1	.0	.0	.0	.0	.1	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.0	6.3	.1	.0	.0	.0	12.4	
1-2	1.4	33.8	10.9	.0	.0	.0	46.1	
3-4	.1	15.2	13.3	.2	.0	.0	28.8	
5-6	.0	2.8	6.7	.3	.0	.0	9.9	
7	.0	1.0	1.4	.0	.1	.0	2.5	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	59.1	32.7	.5	.1	.0	100.0	920

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	14.4	13.9	5.1	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	436	3
6-7	.0	1.2	7.1	7.6	4.9	2.3	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	5
8-9	.0	.8	3.5	3.5	3.6	1.2	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	155	6
10-11	.0	.7	.7	.8	.7	.7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
12-13	.0	.0	1.1	.5	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
>13	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
INDET	1.9	5.5	6.5	3.0	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	206	3
TOTAL	46	259	375	240	146	32	19	4	4	1	0	0	0	0	0	0	0	0	0	1146	4
PCT	4.0	22.6	32.7	20.9	12.7	4.5	1.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1897-1975

SEPTEMBER

TABLE 1

AREA 0012 ACCRA
3.1N .4W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN-SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	82.6	
E	.0	10.3	.0	.0	.0	.0	.0	10.3	.0	13.8	.0	.0	.0	.0	75.9	
SE	1.1	.6	.0	.0	.0	.0	.0	1.5	6.4	1.5	.8	.0	.0	.0	89.8	
S	1.5	1.5	.8	.0	.0	.0	.0	3.7	2.3	.2	.6	.0	.4	.0	92.8	
SW	1.4	2.4	1.0	.0	.0	.0	.0	4.8	3.9	.6	.9	.0	.9	.0	88.9	
W	.0	.7	.9	.0	.0	.0	.0	1.6	1.9	.5	1.2	.0	.9	.0	93.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1	.0	.0	.0	.0	.0	.0	3.1	6.3	6.3	3.1	.0	3.1	.0	78.1	
TOT PCT	1.3	1.7	.8	.0	.0	.0	.0	3.8	3.2	.7	.9	.0	.7	.0	90.8	
TOT OBS:	1352															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.8	2.4	.3	.0	.0	.0	.0	3.5	2.9	1.6	1.9	.0	.8	.0	89.3
06009	2.5	1.6	1.9	.0	.0	.0	.0	6.1	4.8	.0	1.0	.0	1.0	.0	87.3
12015	1.4	1.1	.6	.0	.0	.0	.0	3.1	2.0	.6	.8	.0	.6	.0	93.0
18021	1.7	1.4	.6	.0	.0	.0	.0	3.8	4.1	.3	.3	.0	.3	.0	91.3
TOT PCT TOT OBS:	1.6 1389	1.7	.8	.0	.0	.0	.0	4.0	3.4	.6	1.0	.0	.6	.0	90.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.2	.1	.0	.0	.0	.0	.3	3.1	.3	.5	.4	.0	.6	.0	.3	.0	.0
NE	.1	.1	.0	.0	.0	.0	.3	5.6	.5	1.2	.4	.3	.3	.0	.0	.0	.0
E	.2	.2	.1	.0	.0	.0	.5	5.1	1.0	1.9	.4	.3	.2	.0	.0	.0	.4
SE	.7	2.4	.9	.0	.0	.0	4.0	8.2	4.6	4.4	3.3	2.0	4.2	3.5	4.1	4.7	
S	2.7	21.8	10.3	.2	.0	.0	35.1	8.9	35.6	25.8	38.2	33.1	37.7	32.2	39.4	32.2	
SW	2.5	28.8	12.3	.1	.0	.0	43.7	8.8	42.5	41.5	40.7	44.3	41.5	50.2	45.5	46.9	
W	1.3	7.4	2.6	.0	.0	.0	11.3	8.1	9.6	17.2	11.1	13.7	10.9	13.1	8.9	10.5	
NW	.3	.5	.1	.0	.0	.0	1.0	5.5	1.1	.6	1.7	.6	.9	.2	.6	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8							3.8	.0	5.0	7.0	3.9	5.7	3.7	.8	1.3	3.3
TOT OBS	292	1524	656	9	0	0	2481		8.3	500	214	285	175	491	237	310	269
TOT PCT	11.8	61.4	26.4	.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21			
N	.3	.0	.0	.0	.0		.3	3.1	.4	.2	.4	.2	.0	.0	
NE	.2	.1	.0	.0	.0		.3	5.6	.7	.3	.2	.0	.0	.0	
E	.4	.1	.0	.0	.0		.5	5.1	1.2	.3	.1	.0	.0	.0	
SE	1.5	2.2	.2	.0	.0		4.0	8.2	4.6	2.8	4.0	4.4	4.7	4.1	
S	11.2	22.3	1.5	.0	.0		35.1	8.9	32.7	36.3	35.9	36.1	36.2	36.0	
SW	14.9	26.9	1.9	.0	.0		43.7	8.8	42.2	42.1	44.4	46.2	46.9	46.6	
W	4.9	6.1	.3	.0	.0		11.3	8.1	11.8	12.1	11.6	9.6	9.2	9.5	
NW	.7	.3	.0	.0	.0		1.0	5.5	.9	1.3	.7	1.2	1.0	1.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8	.0	.0	.0	.0		3.8	.0	5.4	4.6	2.7	2.2	2.2	2.2	
TOT OBS	939	1443	97	2	0	2481		8.3	714	460	728	579	579	579	
TOT PCT	37.8	58.2	3.9	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1857-1975

SEPTEMBER

AREA 0012 ACCRA
3.1N .4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	5.6	8.8	60.4	24.9	.3	.0	.0	8.0	100.0	714
06009	4.6	7.4	59.3	28.3	.4	.0	.0	8.5	100.0	460
12015	2.7	6.2	62.6	28.0	.4	.0	.0	8.3	100.0	728
18021	2.2	7.1	62.9	27.5	.3	.0	.0	8.6	100.0	579
TOT	94	198	1524	656	9	0	0	8.3		2481
PCT	3.8	8.0	61.4	26.4	.4	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.1	.1		4.3
NE	.2	.1	.1	.0		2.3
E	.2	.0	.0	.0		.0
SE	.7	1.3	1.8	1.2		5.3
S	6.2	7.3	16.9	19.8		5.6
SW	6.6	5.6	16.7	10.7		5.4
W	1.5	.9	3.5	2.0		5.3
NW	.4	.1	.1	.1		3.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.8	.5		5.2
TOT OBS	180	171	444	315	1110	5.4
TOT PCT	16.2	15.4	40.0	28.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
.0	.0	.3	.5	.8	.6	.1	.2	.0	.0	.2	2.4
.1	.4	1.0	4.3	9.9	6.6	1.2	.4	.3	.2	19.8	
.4	.1	.8	3.6	8.4	4.8	.8	.1	.3	.5	20.0	
.0	.0	.0	.8	1.8	.9	.3	.0	.1	.1	3.8	
.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.3	.3	.3	.2	.0	.0	.1	.8	
.5	.5	2.5	10.5	23.6	14.7	31	7	7	10	532	1110
.5	.5	2.3	9.5	21.3	13.2	2.8	.6	.6	.9	47.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	4.2	5.2	5.3	5.3	5.3	5.3	5.3	5.3
= OR >2000	14.3	18.0	18.5	18.5	18.5	18.5	18.5	18.5
= OR >1000	32.2	39.0	39.7	39.7	39.7	39.7	39.7	39.7
= OR >600	39.2	48.0	49.0	49.0	49.0	49.0	49.0	49.0
= OR >300	41.0	50.2	51.3	51.3	51.3	51.3	51.3	51.3
= OR >150	41.3	50.6	51.7	51.7	51.7	51.7	51.7	51.7
= OR >0	41.3	51.0	52.3	52.3	52.3	52.3	52.3	52.3
TOTAL	465	575	589	589	589	589	589	589

TOTAL NUMBER OF OBS: 1127

PCT FREQ NH <5/8: 47.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.0	7.5	11.1	10.7	11.0	9.0	12.7	11.7	18.8	.5	1176

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1897-1975

SEPTEMBER

AREA 0012 ACCRA
3.1N .4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	*	*	*	*	.0	.0	.0	.2	
	TOT %	.0	.1	.0	*	.1	*	*	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	*	.2	.2	.0	.0	.0	.1	.4	
	NO PCP	.0	.0	.0	.1	.4	.6	.2	.0	.0	.1	1.4	
	TOT %	.0	.0	.0	.2	.6	.7	.2	.0	.0	.1	1.8	
5<10	PCP	.0	.0	.1	.1	1.0	1.3	.1	.0	.0	.0	2.4	
	NO PCP	.1	.1	.3	.8	5.0	7.5	2.6	.2	.0	1.1	17.8	
	TOT %	.1	.1	.4	.9	6.0	8.7	2.6	.2	.0	1.1	20.2	
10+	PCP	.0	.0	.0	.0	.4	.5	.1	.0	.0	.0	.9	
	NO PCP	.2	.2	.1	3.8	34.8	30.5	4.9	.6	.0	1.1	76.3	
	TOT %	.2	.2	.1	3.8	35.2	30.9	5.0	.6	.0	1.1	77.1	
TOT OBS													1352
TOT PCT		.3	.4	.5	4.9	42.0	40.8	7.9	.8	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	*	.1	*	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.1	.1	*	.0	.2	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	*	.1	*	*	.0	.0		.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	*	.1	.1	*	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.2	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.1	*	.1	.0	.0	.2	.4	
	4-10	.0	.0	.0	.2	.4	.6	.2	.0	.0		1.3	
	11-21	.0	.0	.0	.1	.2	.1	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.2	.7	.8	.3	.0	.0	.2	2.2	
5<10	0-3	*	.1	.3	.3	.8	.7	.2	.1	.0	1.1	3.6	
	4-10	.1	*	.1	.4	3.6	6.4	1.3	.2	.0		11.9	
	11-21	.0	.0	.0	.1	1.2	2.4	.9	.0	.0		4.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.3	.8	5.6	9.6	2.4	.2	.0	1.1	20.3	
10+	0-3	.1	.1	.0	.3	1.3	1.6	.5	.3	.0	1.5	5.6	
	4-10	.1	.1	.2	1.9	18.9	21.2	4.1	.2	.0		46.7	
	11-21	.0	.1	.1	1.0	10.2	10.8	1.7	.2	.0		24.2	
	22+	.0	.0	.0	.0	.1	.1	*	.0	.0		.3	
	TOT %	.2	.2	.3	3.2	30.6	33.7	6.4	.6	.0	1.5	76.7	
TOT OBS													1884
TOT PCT		.3	.4	.6	4.2	37.1	44.4	9.2	.8	.0	3.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1857-1975

AREA 0012 ACCRA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.9	.8	3.1	8.9	17.8	6.6	3.1	1.6	1.2	.8	45.7	54.3	258
06609	.0	.7	3.9	13.7	25.7	15.1	3.2	.4	.4	1.4	64.4	35.6	284
12615	.3	.3	1.0	7.0	20.5	14.6	3.0	.7	.3	1.0	48.7	51.3	302
18621	.0	.0	1.3	7.3	19.3	14.6	2.3	.7	.7	.7	46.8	53.2	301
TOT PCT	6 .5	5 .4	26 2.3	105 9.2	239 20.9	148 12.9	33 2.9	9 .8	7 .6	11 1.0	589 51.4	556 48.6	1145 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.5	.5	.4	2.7	24.9	71.0	551
06609	.5	.3	.3	3.9	21.2	73.9	387
12615	.4	.4	.2	1.9	17.8	79.3	518
18621	.0	.0	.2	.9	18.5	80.5	466
TOT PCT	7 .4	6 .3	5 .3	44 2.3	397 20.7	1463 76.1	1922 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	2.0	5.9	18.2	30.8	51.0	253
06609	.0	4.6	20.3	45.6	34.2	281
12615	.3	1.7	9.7	39.7	50.7	300
18621	.0	1.4	9.2	38.9	51.9	293
TOT PCT	6 .5	37 3.3	159 14.1	439 39.0	529 46.9	1127 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
80/84	.0	.0	.0	.0	.5	2.1	1.4	.5	52	4.6
75/79	.0	.0	.0	.0	1.2	11.3	45.0	17.1	838	74.8
70/74	.0	.0	.0	.0	.3	1.5	8.1	10.3	227	20.2
65/69	.0	.0	.0	.0	.0	.0	.1	.2	3	.3
TOTAL	0	0	0	0	23	169	613	316	1121	100.0
PCT	.0	.0	.0	.0	2.1	15.1	54.7	28.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.1	.0	.0	.2	2.0	1.8	.4	.0	.0	.1
.2	.1	.1	4.1	31.6	32.0	5.3	.4	.0	.8
.0	.2	.3	.8	10.5	5.7	1.3	.3	.0	1.2
.0	.0	.0	.0	.1	.2	.0	.0	.0	.0
.3	.3	.4	5.2	44.3	39.7	7.0	.7	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	83	79	78	75	71	69	68	74.8	723
06609	83	80	79	75	72	70	66	75.5	462
12615	89	84	82	77	73	72	67	77.5	729
18621	82	81	79	76	73	70	64	76.1	579
TOT	89	83	80	76	72	70	64	76.0	2493

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	1.0	6.7	56.1	36.2	87	312
06609	.0	.0	1.5	13.5	49.4	35.6	86	267
12615	.0	.0	4.2	27.3	51.9	16.6	82	289
18621	.0	.0	1.4	12.2	59.4	27.0	85	278
TOT	0	0	23	170	622	331	85	1146

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1857-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.2	.0	2	.1	.1
11/13	.0	.0	.1	.0	.2	.0	3	.0	.2
9/10	.0	.0	.2	.2	.0	.1	7	.0	.6
7/8	.1	.2	.3	.5	.2	.0	15	.1	1.1
6	.1	.2	.2	.1	.0	.0	6	.0	.5
5	.1	.2	.6	.6	.0	.0	21	.1	1.6
4	.2	.2	1.0	.8	.0	.0	27	.1	2.1
3	.2	.7	2.1	.7	.0	.0	47	.0	3.7
2	.7	2.1	4.2	.8	.0	.0	99	.2	7.7
1	.2	5.7	6.0	.2	.0	.0	128	.1	10.1
0	1.0	9.3	9.2	.5	.0	.0	251	.2	19.6
-1	.5	13.1	7.0	.1	.0	.0	260	.1	20.5
-2	.3	11.0	4.4	.2	.0	.0	200	.1	15.8
-3	.2	5.7	1.2	.0	.0	.0	90	.0	7.1
-4	.2	3.5	1.4	.0	.0	.0	65	.1	5.1
-5	.2	1.7	.2	.0	.0	.0	28	.0	2.2
-6	.2	.5	.0	.0	.0	.0	8	.0	.6
-7/-8	.1	.2	.1	.0	.0	.0	5	.0	.4
-9/-10	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	53	687	458	58	6	1	1263	13	1250
PCT	4.2	54.4	36.3	4.6	.5	.1	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.0	.0	.0	.0	.0	.0	.*	2.0	.2	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.1	2.9	.9	.0	.0	.0	4.0

PERIOD: (OVER-ALL) 1963-1975

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TABLE 18 (CONT)

3.1N .4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	3.3	.1	.0	.0	.0		3.8	1.2	3.9	.3	.0	.0	.0		5.4
1-2	.9	14.9	4.2	.0	.0	.0		20.0	.5	12.8	3.8	.0	.0	.0		17.1
3-4	.0	8.4	5.4	.1	.0	.0		11.9	.1	4.9	7.8	.1	.0	.0		12.8
5-6	.0	1.4	4.6	.1	.0	.0		6.1	.0	2.0	3.5	.1	.0	.0		5.6
7	.0	.0	1.1	.1	.0	.0		1.1	.0	.0	.2	.1	.0	.0		.3
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.1	.0	.0	.0	.0		.1	.0	.1	.0	.0	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.3	26.1	15.6	.3	.0	.0		43.2	1.8	23.6	15.6	.2	.0	.0		41.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.9	.1	.0	.0	.0		1.2	.0	.1	.0	.0	.0	.0		.1	
1-2	.2	1.8	1.2	.0	.0	.0		3.1	.4	.4	.1	.0	.0	.0		.9	
3-4	.0	1.0	1.5	.0	.0	.0		2.4	.0	.1	.0	.0	.0	.0		.1	
5-6	.0	.7	.2	.0	.0	.0		.9	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	4.4	3.0	.0	.0	.0		7.7	.4	.3	.1	.0	.0	.0		1.0	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.0	9.0	.6	.0	.0	.0	14.6	
1-2	2.1	31.5	9.5	.0	.0	.0	43.1	
3-4	.3	12.7	14.7	.1	.0	.0	27.9	
5-6	.0	4.0	8.4	.2	.0	.0	12.6	
7	.0	.0	1.5	.1	.0	.0	1.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	57.4	34.7	.4	.0	.0	100.0	896

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	16.6	12.8	7.3	2.7	.6	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	459
6-7	.0	2.4	6.7	7.7	4.3	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	238
8-9	.1	.3	2.7	3.6	2.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105
10-11	.0	.9	1.8	1.9	1.2	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68
12-13	.0	.0	1.8	.7	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36
>13	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
INDET	2.2	2.4	4.3	3.6	2.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169
TOTAL	45	245	325	274	145	29	14	3	2	0	0	0	0	0	0	0	0	0	0	0	1082
PCT	4.2	22.6	30.0	25.3	13.4	2.7	1.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1857-1975

OCTOBER

AREA 0012 ACCRA
3.4N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	.0	7.4	.0	.0	.0	.0	7.4	.0	14.8	.0	.0	.0	.0 77.8
NE	3.6	.0	14.3	.0	.0	.0	.0	17.9	.0	.0	.0	.0	.0	.0 82.1
E	14.9	4.3	.0	.0	.0	.0	.0	19.1	.0	.0	.0	.0	.0	.0 80.9
SE	1.2	3.2	3.7	.0	.0	.0	.0	8.1	2.6	.0	.0	.0	.0	.0 89.3
S	1.4	3.4	1.2	.0	.0	.0	.0	6.0	4.8	.8	.2	.0	.0	.0 88.4
SW	2.2	2.9	1.1	.0	.0	.0	.0	6.1	4.2	.7	.4	.2	.0	.0 88.5
W	.9	2.8	.5	.0	.0	.0	.3	4.6	5.0	2.0	.6	.0	.5	.0 87.3
NW	7.8	.0	2.6	.0	.0	.0	2.6	13.0	.0	5.2	.0	.0	1.3	.0 80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	3.3	.0	.0	.0	.0	3.3	3.3	3.3	6.7	.0	.0	.0 83.3
TOT PCT	1.8	3.0	1.4	.0	.0	.0	.1	6.2	4.3	1.0	.4	.1	.1	.0 88.0
TOT OBS:	1502													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	.3	4.6	1.5	.0	.0	.0	.3	6.6	3.3	2.0	.3	.0	.0	.0 87.7
06009	2.6	2.9	2.3	.0	.0	.0	.0	7.4	7.4	.6	.9	.3	.3	.0 83.1
12015	2.4	2.4	.7	.0	.0	.0	.0	5.5	4.5	.2	.0	.0	.0	.0 90.0
18021	1.8	2.4	1.3	.0	.0	.0	.0	5.5	1.8	1.3	.5	.0	.0	.0 90.8
TOT PCT	1.7	3.0	1.4	.0	.0	.0	.1	6.2	4.2	1.0	.4	.1	.1	.0 88.1
TOT OBS:	1543													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.6	.1	.0	.0	.0		.8	7.2	.3	3.9	.6	1.6	.4	.0	.0	.0	.3
NE	.1	.4	*	.0	.0	.0		.6	5.4	.7	1.1	.0	1.4	.7	.0	.0	.4	.5
E	.2	.8	.1	.0	.0	.0		1.0	6.3	1.3	1.7	.5	1.2	1.0	.2	1.8	.5	
SE	.8	3.9	.6	*	.0	.0		5.3	6.9	6.6	6.2	4.0	4.4	4.4	4.0	6.3	5.4	
S	2.8	21.7	8.2	.2	.0	.0		32.9	8.6	31.3	20.2	38.3	25.7	35.3	32.8	45.3	29.7	
SW	2.5	27.3	11.3	.3	.0	.0		41.5	8.9	41.8	43.0	40.9	32.3	39.8	48.4	37.3	48.5	
W	1.5	9.0	3.4	*	.0	.0		13.9	8.4	13.5	17.2	10.1	24.0	15.4	13.1	7.6	13.4	
NW	.3	1.2	.1	.0	.0	.0		1.6	6.4	1.3	2.8	1.3	7.2	1.0	.6	.3	.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3							2.3	.0	3.2	3.8	4.2	2.3	1.9	.9	.9	1.0	
TOT OBS	286	1750	645	14	0	0	2695		8.3	538	266	311	216	518	231	316	299	
TOT PCT	10.6	64.9	23.9	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	18
N	.4	.4	.0	.0	.0	.8	7.2	1.5	1.0	.3	.2
NE	.5	.1	.0	.0	.0	.6	5.4	.8	.6	.5	.4
E	.7	.4	*	.0	.0	1.0	6.3	1.4	.8	.8	1.2
SE	2.7	2.5	.1	.0	.0	5.3	6.9	6.5	4.2	4.3	5.9
S	11.2	20.5	1.2	.0	.0	32.9	8.6	27.6	33.2	34.5	37.7
SW	12.7	26.7	2.0	*	.0	41.5	8.9	42.2	37.4	42.5	42.8
W	4.8	8.6	.5	.0	.0	13.9	8.4	14.7	15.8	14.7	10.4
NW	1.0	.6	.0	.0	.0	1.6	6.4	1.8	3.7	.9	.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3					2.3	.0	3.4	3.4	1.6	1.0
TOT OBS	979	1613	102	1	0	2695	8.3	804	527	749	615
TOT PCT	36.3	59.9	3.8	*	.0	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1857-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	3.4	9.1	62.8	24.3	.5	.0	.0	.0	8.2	100.0	804
06609	3.4	10.1	67.4	18.6	.6	.0	.0	.0	7.7	100.0	527
12615	1.6	8.3	65.2	24.3	.7	.0	.0	.0	8.5	100.0	749
18621	1.0	5.7	65.4	27.6	.3	.0	.0	.0	8.8	100.0	615
TOT	63	223	1750	645	14	0	0	0	8.3		2695
PCT	2.3	8.3	64.9	23.9	.5	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.2	.0		4.4
NE	.1	.0	.1	.3		6.5
E	.0	.2	.2	.3		6.2
SE	.5	1.3	2.2	1.3		5.5
S	4.6	8.8	21.0	11.0		5.6
SW	4.9	8.9	15.5	7.5		5.2
W	1.5	2.2	4.0	1.0		4.9
NW	.0	.1	.3	.3		6.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.4	.8		5.2
TOT OBS	139	250	504	258	1151	5.4
TOT PCT	12.1	21.7	43.8	22.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
NE	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
E	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.1	.2
SE	.0	.0	.1	.6	1.1	.6	.3	.0	.0	.0	.0	2.6
S	.1	.1	.8	4.9	8.9	6.9	1.9	.4	.1	.2	.2	21.2
SW	.0	.3	.6	3.3	7.0	3.9	1.7	.4	.0	.0	.0	19.1
W	.0	.0	.0	.4	1.2	.7	.3	.0	.0	.0	.0	6.0
NW	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.3	.1	.5	.0	.0	.0	.0	.0	.9
TOT OBS	2	4	19	111	216	147	49	10	1	8	584	1151
TOT PCT	.2	.3	1.7	9.6	18.8	12.8	4.3	.9	.1	.7	50.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>10	>5	>2	>1	>10	>5	>2	>1
>6500	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
>5000	1.2	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>3500	4.6	5.5	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	5.8	5.8
>2000	15.1	18.0	18.3	18.3	18.3	18.3	18.4	18.4	18.4	18.4	18.4	18.4
>1000	30.7	36.3	36.8	36.9	36.9	36.9	37.0	37.0	37.0	37.0	37.0	37.0
>600	37.5	45.5	46.3	46.4	46.4	46.4	46.5	46.5	46.5	46.5	46.5	46.5
>300	38.4	46.9	47.8	48.0	48.0	48.0	48.1	48.1	48.1	48.1	48.1	48.1
>150	38.6	47.1	48.2	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4
>0	38.6	47.2	48.3	48.5	48.5	48.5	48.6	48.6	48.6	48.6	48.6	48.6
TOTAL	453	554	567	569	569	570	570	570	570	570	570	570

TOTAL NUMBER OF OBS: 1173

PCT FREQ NH <5/8: 51.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
										OBS
	3.4	7.4	13.7	14.5	12.0	8.6	12.1	12.9	15.3	1213

PERIOD: (PRIMARY) 1923-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.2	.2
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
1<2	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	.3
2<5	PCP	.0	*	.1	.1	.3	.2	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	.0	.0	.1	.1	.2	.0	.0	.1	.5	.5
	TOT %	.0	*	.1	.1	.4	.3	.2	.0	.0	.1	1.1	1.1
5<10	PCP	*	.0	.1	.2	1.3	1.4	.4	.2	.0	.1	3.7	3.7
	NO PCP	.3	.3	.3	1.1	6.0	8.1	3.5	.6	.0	.6	20.8	20.8
	TOT %	.3	.3	.4	1.3	7.3	9.6	3.9	.7	.0	.7	24.5	24.5
10+	PCP	.0	.1	.0	.2	.7	.5	.1	.0	.0	.0	1.5	1.5
	NO PCP	.1	.1	.4	4.2	32.4	27.1	6.4	.6	.0	1.2	72.4	72.4
	TOT %	.1	.2	.4	4.3	33.1	27.6	6.5	.6	.0	1.2	73.9	73.9
TOT OBS													1499
TOT PCT		.5	.5	.8	5.8	40.9	37.7	10.6	1.3	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.3	.3	.3
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	*	*	.0	.0	.3	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
	4-10	.0	.0	*	.1	.1	.2	*	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	*	.1	.1	.2	.1	.0	.0	.0	.5	.5
2<5	0-3	.0	.0	.0	*	*	.1	.0	.0	.0	*	.2	.2
	4-10	*	.1	*	.1	.2	.4	.1	.0	.0	.0	.9	.9
	11-21	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	.1	*	.1	.4	.7	.2	.0	.0	*	1.6	1.6
5<10	0-3	*	.1	.1	.3	.8	.8	.5	.2	.0	.5	3.4	3.4
	4-10	.4	.2	.2	.8	4.1	5.4	2.3	.4	.0	.0	13.7	13.7
	11-21	.0	.0	*	.1	1.3	2.1	.6	.1	.0	.0	4.3	4.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.3	.4	1.2	6.2	8.3	3.4	.7	.0	.5	21.4	21.4
10+	0-3	.0	.0	*	.4	2.4	1.6	.6	.1	.0	1.4	6.6	6.6
	4-10	*	.2	.6	3.1	19.2	21.9	9.9	.6	.0	.0	51.4	51.4
	11-21	*	*	.1	.6	6.8	7.7	2.5	*	.0	.0	17.9	17.9
	22+	.0	.0	.0	*	*	.1	*	.0	.0	.0	.2	.2
	TOT %	.1	.3	.7	4.1	28.4	31.3	9.1	.7	.0	1.4	76.1	76.1
TOT OBS													2072
TOT PCT		.5	.6	1.1	5.4	35.1	40.5	12.9	1.5	.0	2.3	100.0	

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PERIOD: (PRIMARY) 1923-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	9000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.4	2.0	8.9	17.7	15.3	4.4	.8	.0	1.2	50.8	49.2	248
06009	.3	.3	1.3	13.3	19.1	13.9	5.5	1.3	.3	.6	56.0	44.0	309
12015	.0	.3	1.3	9.1	18.3	10.4	3.8	.6	.0	.6	44.5	55.5	317
18021	.3	.3	2.2	6.0	18.0	10.8	2.8	.6	.0	.3	41.5	58.5	316
TOT	2	4	20	111	218	148	49	10	1	8	571	619	1190
PCT	.2	.3	1.7	9.3	18.3	12.4	4.1	.8	.1	.7	48.0	52.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.2	.2	2.1	26.2	71.0	576
06009	1.3	.0	.9	1.3	19.9	76.6	448
12015	.0	.0	.5	.9	21.9	76.8	585
18021	.0	.0	.4	2.2	17.7	79.8	504
TOT	8	1	10	34	457	1603	2113
PCT	.4	.0	.5	1.6	21.6	75.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.4	12.1	38.9	49.0	247
06009	.3	2.6	16.8	40.8	42.4	304
12015	.0	1.6	11.5	33.5	55.0	313
18021	.3	2.6	9.4	32.7	57.9	309
TOT	2	27	146	426	601	1173
PCT	.2	2.3	12.4	36.3	51.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
80/84	.0	.0	.0	.0	.3	7.7	11.1	.9	252	19.9
75/79	.0	.0	.0	.0	.4	8.8	45.3	18.0	917	72.5
70/74	.0	.0	.0	.0	.2	.7	2.5	3.9	93	7.4
65/69	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	0	12	219	745	289	1265	100.0
PCT	.0	.0	.0	.0	.9	17.3	58.9	22.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
80/84	.0	.1	.1	1.7	7.2	8.1	2.1	.2	.0	.4
75/79	.1	.2	.4	3.4	34.1	27.3	5.9	.4	.0	.8
70/74	.2	.0	.1	.6	2.9	2.3	.8	.1	.0	.3
65/69	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
TOTAL	.2	.3	.6	5.9	44.3	37.8	8.8	.7	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	81	80	77	73	71	66	76.8	799
06009	84	82	81	77	73	72	68	76.9	531
12015	92	86	84	79	75	73	66	79.3	741
18021	86	82	81	78	74	72	67	77.7	606
TOT	92	84	82	78	74	72	66	77.7	2677

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.2	9.1	59.4	30.3	87	340
06009	.0	.0	1.0	10.1	58.1	30.9	86	298
12015	.0	.0	.9	31.0	59.1	9.1	82	342
18021	.0	.0	.6	17.8	58.0	23.6	85	314
TOT	0	0	12	223	759	300	85	1294

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1857-1975

OCTOBER

AREA 0012 ACCRA
3.4N .3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
7/8	.0	.0	.0	.2	.2	.0	.0	6	.0	.4
6	.0	.0	.0	.1	.2	.0	.0	4	.0	.3
5	.0	.0	.0	.1	.2	.0	.0	5	.0	.3
4	.0	.0	.2	.2	.9	.3	.0	23	.1	1.5
3	.0	.0	.1	1.0	.9	.0	.0	29	.0	2.0
2	.0	.0	1.2	3.1	1.8	.1	.0	89	.1	6.1
1	.0	.1	2.4	6.5	1.7	.0	.0	153	.1	10.6
0	.1	.1	3.4	13.9	2.7	.0	.0	290	.1	20.1
-1	.0	.3	5.5	13.8	1.5	.0	.0	303	.1	21.0
-2	.0	.1	5.1	10.3	.5	.1	.0	230	.0	16.0
-3	.0	.2	5.1	5.0	.4	.0	.0	154	.0	10.7
-4	.0	.1	2.1	2.6	.1	.0	.0	70	.0	4.9
-5	.0	.2	1.3	1.0	.0	.0	.0	35	.1	2.4
-6	.0	.1	.4	.5	.0	.0	.0	14	.0	1.0
-7/-8	.0	.1	.9	.4	.0	.0	.0	20	.0	1.4
-9/-10	.0	.1	.1	.1	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	18	844	161	8	1435	6	1429		
PCT	.1	1.3	27.8	58.8	11.2	.6	.2	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.4	.1	.0	.0	.0	.0	.0	.5

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.1	.0	.0	.0	.0	.1	.0	.2	.6	.0	.0	.0	.0	.0	.8
1-2	.0	.2	.1	.0	.0	.0	.3	.0	.1	.9	.1	.0	.0	.0	.0	2.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.1	.0	.0	.0	.4	.0	.2	2.9	.3	.0	.0	.0	.0	3.4

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0012 ACCRA
3.4N .3M

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.2	.0	.0	.0	.0	4.1	1.0	2.5	.3	.0	.0	.0	3.9
1-2	1.1	17.5	3.1	.0	.0	.0	21.7	.5	15.2	3.8	.0	.0	.0	19.5
3-4	.0	7.9	4.8	.0	.0	.0	12.7	.0	6.5	5.0	.0	.0	.0	11.5
5-6	.0	1.0	2.9	.0	.0	.0	4.0	.0	.9	1.6	.0	.0	.0	2.4
7	.0	.8	1.1	.0	.0	.0	1.9	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	30.4	12.2	.0	.0	.0	44.6	1.6	25.1	11.6	.0	.0	.0	38.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.2	.4	.0	.0	.0	.0	.6	
1-2	.4	3.4	1.5	.0	.0	.0	5.4	.0	.2	.0	.0	.0	.0	.3	
3-4	.0	1.2	1.4	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.6	2.9	.0	.0	.0	9.1	.2	.7	.0	.0	.0	.0	.9	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	7.7	.3	.0	.0	.0	14.4	
1-2	2.4	38.0	8.4	.0	.0	.0	48.8	
3-4	.1	15.8	11.1	.0	.0	.0	27.0	
5-6	.0	2.3	4.5	.0	.0	.0	6.8	
7	.0	.8	2.0	.0	.0	.0	2.8	
8-9	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	64.5	26.6	.0	.0	.0	100.0	882

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.8	14.2	11.9	4.0	2.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	380	3
6-7	.0	3.7	10.9	9.3	3.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	4
8-9	.0	.6	3.4	5.5	1.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	5
10-11	.0	1.4	1.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	3
12-13	.0	.0	1.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	3.5	6.3	5.6	.8	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	2
TOTAL	68	284	378	238	98	17	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1087	3
PCT	6.3	26.1	34.8	21.9	9.0	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

NOVEMBER

AREA 0012 ACCRA
3.2N .4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	.0	.0	7.4	.0	.0	.0	.0	7.4	14.8	.0	.0	.0	.0	.0	77.8	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	91.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	4.9	4.9	4.9	.0	4.9	.0	80.5	
SE	1.8	2.9	.2	.0	.0	.0	.0	4.9	6.4	1.8	.0	.0	.0	.7	86.2	
S	1.0	1.9	.7	.0	.0	.0	.0	3.5	4.2	.8	.0	.0	.3	.0	91.3	
SW	.3	1.5	.5	.0	.0	.0	.0	2.3	3.3	1.2	.0	.0	.1	.0	93.2	
W	1.0	.0	1.0	.0	.0	.0	.0	2.0	2.0	2.7	.0	.0	.0	.0	93.4	
NW	5.4	.0	2.7	.0	.0	.0	.0	8.1	5.4	5.4	.0	.0	.0	.0	81.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	2.6	.0	.0	.0	.0	2.6	.0	10.3	.0	.0	.0	.0	87.2	
TOT PCT	.8	1.6	.7	.0	.0	.0	.0	3.1	3.9	1.6	.1	.0	.2	.1	91.1	
TOT OBS:	1443															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ WU PCPN	FOG W/ WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	1.0	1.8	1.3	.0	.0	.0	.0	4.2	5.5	3.4	.0	.0	.0	.0	86.9
06009	1.2	2.3	.9	.0	.0	.0	.0	4.4	3.8	2.1	.0	.0	.3	.3	89.7
12015	.5	.7	.2	.0	.0	.0	.0	1.5	2.4	.2	.2	.0	.2	.0	95.4
18021	1.4	1.7	.3	.0	.0	.0	.0	3.3	4.5	.8	.0	.0	.3	.0	91.1
TOT PCT	1.0	1.6	.7	.0	.0	.0	.0	3.3	4.0	1.6	.1	.0	.2	.1	90.9
TOT OBS:	1494														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.2	.7	*	.0	.0	.0		.9	5.6		.5	2.3	.5	4.0	.5	.4	.3	.3
NE	.2	.6	.1	*	.0	.0		1.0	7.3		.9	2.0	1.5	2.5	.7	.4	.3	.3
E	.4	.9	.1	.1	.0	.0		1.5	6.5		2.0	1.8	1.6	.9	2.1	1.1	.6	.8
SE	1.3	7.4	1.4	*	.0	.0		10.2	7.2		10.6	10.9	8.9	7.7	9.9	10.9	10.5	11.5
S	2.9	27.5	6.2	.1	.0	.0		36.8	7.9		36.0	24.5	40.6	26.8	37.1	41.8	48.5	36.5
SW	2.6	28.1	5.3	.0	.0	.0		36.0	7.7		37.8	38.8	35.0	33.3	34.1	37.8	32.2	37.8
W	1.3	6.4	1.6	.0	.0	.0		9.3	7.6		8.6	13.0	7.8	14.2	10.0	7.2	4.3	10.7
NW	.4	.9	*	.0	.0	.0		1.3	5.7		.8	3.0	1.2	4.5	1.6	.0	.6	.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		2.7	3.7	3.1	6.3	4.0	.4	2.5	1.8
TOT OBS	357	2082	425	7	0	0		2871		7.4	594	301	321	224	521	269	314	327
TOT PCT	12.4	72.5	14.8	.2	.0	.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.7	.3	.0	.0	.0		.9	5.6	1.1	1.9	.5	.3
NE	.6	.3	.1	.0	.0		1.0	7.3	1.3	1.9	.6	.3
E	1.0	.4	.1	*	.0		1.5	6.5	1.9	1.3	1.7	.7
SE	5.2	4.8	.2	.0	.0		10.2	7.2	10.7	8.4	10.3	11.0
S	14.6	21.1	1.1	.0	.0		36.8	7.9	32.1	34.9	38.7	42.4
SW	14.9	20.5	.5	.0	.0		36.0	7.7	38.2	34.3	35.4	35.1
W	4.2	4.9	.3	.0	.0		9.3	7.6	10.1	10.4	9.1	7.6
NW	.9	.5	*	.0	.0		1.3	5.7	1.6	2.5	1.0	.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0	.0	.0	.0	.0		3.0	.0	3.0	4.4	2.8	2.2
TOT OBS	1287	1516	67	1	0	2871		7.4	895	545	790	641
TOT PCT	44.8	52.8	2.3	*	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

NOVEMBER

TABLE 4

AREA 0012 ACCRA
3.2M .4M

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
DIR	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	OBS	OBS
N	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
NE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	
E	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.9	
SE	.0	.0	.1	.7	1.0	1.2	.5	.0	.2	.1	5.5	
S	.2	.0	.5	3.4	6.3	6.4	1.1	.1	.1	.4	29.0	
SW	.0	.0	.0	1.2	3.2	2.8	1.0	.2	.0	.4	22.6	
W	.0	.0	.1	.3	.4	.9	.0	.1	.0	.1	4.5	
NW	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	1.4	
TOT OBS	2	0	9	72	132	144	31	6	4	11	771	1182
TOT PCT	.2	.0	.8	6.1	11.2	12.2	2.6	.5	.3	.9	65.2	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.3	.0		5.4
NE	.2	.3	.2	.0		4.0
E	.4	.4	.1	.1		4.2
SE	1.1	2.6	4.1	1.4		5.1
S	7.7	12.1	19.4	8.3		5.0
SW	6.9	10.6	10.6	3.3		4.4
W	1.2	1.8	2.8	.6		4.5
NW	.3	.1	.5	.1		4.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.8	.8	.2		4.3
TOT OBS	215	340	461	166	1182	4.7
TOT PCT	18.2	28.8	39.0	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
DIR	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	OBS	OBS
N	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
NE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	
E	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.9	
SE	.0	.0	.1	.7	1.0	1.2	.5	.0	.2	.1	5.5	
S	.2	.0	.5	3.4	6.3	6.4	1.1	.1	.1	.4	29.0	
SW	.0	.0	.0	1.2	3.2	2.8	1.0	.2	.0	.4	22.6	
W	.0	.0	.1	.3	.4	.9	.0	.1	.0	.1	4.5	
NW	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	1.4	
TOT OBS	2	0	9	72	132	144	31	6	4	11	771	1182
TOT PCT	.2	.0	.8	6.1	11.2	12.2	2.6	.5	.3	.9	65.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.5	4.2	4.4	4.4	4.4	4.4	4.4	4.4
= OR >2000	14.1	16.2	16.4	16.4	16.4	16.5	16.5	16.5
= OR >1000	24.1	27.2	27.5	27.8	27.8	27.9	27.9	27.9
= OR >600	29.3	33.2	33.6	33.9	33.9	33.9	34.0	34.0
= OR >300	29.9	34.0	34.4	34.7	34.7	34.8	34.8	34.8
= OR >150	29.9	34.0	34.4	34.7	34.7	34.8	34.8	34.8
= OR > 0	30.0	34.1	34.5	34.8	34.8	34.8	34.9	35.0
TOTAL	365	415	420	423	423	424	425	426

TOTAL NUMBER OF OBS: 1217

PCT FREQ NH <5/8: 65.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.2	8.4	17.0	18.1	16.6	8.5	9.9	7.3	9.7	.1	1280

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

NOVEMBER

AREA 0012 ACCRA
3.2N .4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.1	.2	.1	*	.0	.0	.5	
	TOT %	.0	.1	.0	.0	.2	.2	.1	*	.0	.0	.6	
5<10	PCP	*	.0	.0	.4	.6	.2	.1	.1	.0	.0	1.5	
	NO PCP	.3	.3	.7	1.4	4.4	5.6	1.8	.4	.0	.7	15.6	
	TOT %	.3	.3	.7	1.8	5.0	5.8	1.9	.5	.0	.7	17.1	
10+	PCP	.0	.0	.0	*	.7	.5	.1	.0	.0	.1	1.3	
	NO PCP	.2	.4	.8	7.7	37.7	26.3	5.0	.7	.0	1.9	80.7	
	TOT %	.2	.4	.8	7.7	38.4	26.8	5.1	.7	.0	2.0	82.0	
TOT OBS													1442
TOT PCT		.5	.8	1.4	9.5	43.8	33.0	7.1	1.2	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.1	.1	.0	.0	.0	.5	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	*	.0	*	*	.0	.0	.0	.1	
	4-10	.0	.0	*	.1	.2	.2	.1	.1	.0	.0	.7	
	11-21	.0	.1	*	.0	*	.1	.0	.0	.0	.0	.2	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.1	*	.1	.2	.3	.1	.1	.0	.0	1.0	
5<10	0-3	.0	.0	.1	.4	.5	.6	.1	.1	.0	.5	2.4	
	4-10	.2	.3	.3	1.1	3.4	4.0	.9	.2	.0	.0	10.2	
	11-21	.0	.0	.0	.2	.7	.6	*	*	.0	.0	2.0	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.2	.5	1.7	4.6	5.2	1.4	.4	.0	.5	14.7	
10+	0-3	.2	.2	.2	.9	2.5	2.1	.6	.3	.0	2.0	9.1	
	4-10	.4	.3	.6	6.1	26.1	22.9	4.7	.6	.0	.0	61.6	
	11-21	.0	.0	*	1.3	5.9	4.1	1.2	.0	.0	.0	12.5	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.6	.5	.8	8.3	34.6	29.1	6.5	.9	.0	2.0	83.3	
TOT OBS													2129
TOT PCT		.8	.8	1.4	10.2	39.6	34.8	8.1	1.3	.0	3.0	100.0	

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PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1863-1975

AREA 0012 ACCRA
3.2N .4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.7	5.4	10.8	13.6	2.5	.4	.0	.4	33.7	66.3	279
06609	.3	.0	1.0	5.5	12.3	12.3	2.3	.6	.3	1.3	35.9	64.1	309
12615	.3	.0	.3	4.6	11.5	9.2	2.6	.3	.3	.6	29.5	70.5	349
18621	.0	.0	1.3	8.6	9.6	12.7	2.9	.6	.6	1.3	37.6	62.4	314
TOT	2	0	10	75	138	148	32	6	4	11	426	825	1251
PCT	.2	.0	.8	6.0	11.0	11.8	2.6	.5	.3	.9	34.1	65.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.6	.0	.2	1.0	22.0	76.3	628
06609	.9	.2	.4	1.6	12.0	84.9	449
12615	.8	.0	.2	.8	12.0	86.2	593
18621	.4	.2	.2	1.0	12.2	86.1	510
TOT	15	2	5	23	325	1810	2180
PCT	.7	.1	.2	1.1	14.9	83.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00603	.0	.7	6.7	28.3	65.1	269
06609	.3	2.0	8.4	28.8	62.9	299
12615	.3	.6	6.2	24.6	69.2	338
18621	.0	1.3	10.3	27.7	62.1	311
TOT	2	14	96	331	790	1217
PCT	.2	1.2	7.9	27.2	64.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.1	.0	.0	3	.2
85/89	.0	.0	.1	.0	.8	1.0	.5	.1	32	2.5
80/84	.0	.0	.0	.1	.5	14.2	29.7	3.4	614	47.8
75/79	.0	.0	.0	.0	.2	4.0	33.5	10.1	615	47.9
70/74	.0	.0	.0	.0	.0	.0	.5	1.0	19	1.5
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	2	20	248	825	188	1284	100.0
PCT	.0	.0	.1	.2	1.6	19.3	64.3	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
85/89	.1	.0	.2	.3	.8	.9	.2	.0	.0	.0
80/84	.1	.2	.6	4.7	19.6	17.1	3.8	.4	.0	1.2
75/79	.2	.3	.1	4.2	23.9	14.5	3.0	.9	.0	.8
70/74	.0	.0	.1	.3	.4	.3	.3	.0	.0	.1
65/69	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
TOTAL	.4	.5	1.1	9.5	44.8	32.8	7.5	1.3	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	87	83	82	79	75	73	69	79.2	907
06609	88	86	83	79	75	73	71	79.2	553
12615	93	89	86	82	77	75	68	81.5	794
18621	91	85	83	80	77	75	71	80.1	643
TOT	93	87	84	80	76	73	68	80.0	2897

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.3	8.8	69.1	21.8	86	340
06609	.0	.0	.3	13.2	65.7	20.8	86	303
12615	.0	.8	4.7	36.8	49.9	7.8	80	359
18621	.0	.0	.3	17.8	71.5	10.4	84	326
TOT	0	3	20	260	846	199	84	1328

NOVEMBER

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1963-1975

TABLE 17

AREA 0012 ACCKA
3.2N .4WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.1	.0	.1	.0	3	.0	.2
9/10	.0	.0	.0	.1	.1	.1	.1	4	.0	.3
7/8	.0	.0	.0	.2	.3	.2	.0	10	.0	.7
6	.0	.0	.0	.3	.3	.1	.0	10	.0	.7
5	.0	.1	.2	.3	.7	.0	.0	17	.0	1.2
4	.0	.0	.1	.8	.6	.1	.0	21	.0	1.5
3	.0	.1	.4	1.2	.5	.0	.0	30	.0	2.2
2	.0	.1	.6	2.2	.6	.0	.0	47	.0	3.4
1	.0	.2	2.0	4.5	.2	.0	.0	96	.0	7.0
0	.0	.3	7.3	6.9	.4	.0	.0	204	.0	14.8
-1	.0	1.3	15.3	8.4	.0	.0	.0	344	.0	25.0
-2	.1	1.9	13.2	4.4	.1	.0	.0	271	.0	19.7
-3	.1	1.2	7.6	2.0	.0	.0	.0	150	.0	10.9
-4	.0	1.2	4.0	1.2	.0	.0	.0	87	.0	6.3
-5	.0	.9	1.6	.5	.0	.0	.0	41	.0	3.0
-6	.0	.8	.7	.1	.0	.0	.0	23	.1	1.6
-7/-8	.2	.5	.4	.0	.0	.0	.0	15	.0	1.1
-9/-10	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5		734		50		1	1375	1	1374
PCT	.4		119	457		9		100.0	.1	99.9
			8.7	53.4	33.2	3.6	.7			

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	.3	.3	1.4	.0	.0	.0	.0	1.7
1-2	.0	.2	.0	.0	.0	.0	.2	.2	3.8	.9	.0	.0	.0	4.9
3-4	.1	.0	.0	.0	.0	.0	.1	.0	1.2	.7	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	.0	.0	.0	.0	.6	.5	6.4	2.1	.0	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0012 ACCRA
3.2N .4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

								SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	4.4	.0	.0	.0	.0	5.3	1.5	3.4	.2	.0	.0	.0	5.1
1-2	1.2	23.8	4.4	.0	.0	.0	29.4	1.1	15.7	1.4	.0	.0	.0	18.2
3-4	.0	5.3	4.2	.0	.0	.0	9.5	.0	3.3	2.4	.0	.0	.0	5.7
5-6	.0	1.1	2.0	.0	.0	.0	3.0	.0	.7	1.5	.0	.0	.0	2.3
7	.0	.2	.3	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	34.8	10.8	.0	.0	.0	47.8	2.6	23.3	5.5	.0	.0	.0	31.4

								NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	1.7	.2	.0	.0	.0	1.9	.2	.2	.0	.0	.0	.0	.4	
1-2	.4	2.4	.4	.0	.0	.0	3.1	.4	.3	.1	.0	.0	.0	.5	
3-4	.0	.9	.7	.0	.0	.0	1.6	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.2	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.2	1.3	.0	.0	.0	7.0	.2	.6	.1	.0	.0	.0	1.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.3	11.2	.3	.0	.0	.0	18.8	
1-2	3.3	45.6	7.0	.0	.0	.0	56.0	
3-4	.1	10.8	7.7	.0	.0	.0	18.6	
5-6	.0	2.0	4.0	.0	.0	.0	6.0	
7	.0	.3	.3	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.8	69.9	19.4	.0	.0	.0	100.0	956

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	17.8	13.8	4.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	449	3
6-7	.0	3.0	10.9	5.5	2.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	255	4
8-9	.1	1.2	3.9	4.5	1.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	5
10-11	.0	2.2	2.9	.7	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	4
12-13	.0	.0	2.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	4
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
INDET	3.4	4.9	5.9	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	175	2
TOTAL	65	332	452	195	83	13	2	1	0	0	0	0	0	0	0	0	0	0	0	1143	3
PCT	5.7	29.0	39.5	17.1	7.3	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1859-1975AREA 0012 ACCRA
3,0N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	24.4	.0
NE	7.7	.0	.0	.0	.0	.0	.0	7.7	7.7	7.7	7.7	.0	13.4	.0	70.5
E	3.4	.0	4.5	.0	.0	.0	.0	8.0	6.8	.0	.0	.0	4.5	4.5	61.5
SE	2.2	.8	1.5	.0	.0	.0	.0	4.5	6.1	1.3	.0	.0	.8	.0	76.1
S	.6	1.1	.5	.0	.0	.0	.0	2.2	3.8	1.4	.4	.0	1.4	.1	87.2
SW	.3	1.6	.4	.0	.0	.0	.0	2.4	1.8	2.1	1.6	.0	2.5	.3	90.6
W	1.9	.6	.7	.0	.0	.0	.0	3.2	1.1	6.1	2.6	.0	5.2	.0	89.3
NW	6.1	.8	.0	.0	.0	.0	.0	6.9	3.1	6.1	9.9	.0	6.9	3.1	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64.1
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.5	3.0	.0	7.6	.0	.0
TOT PCT	1.0	1.1	.6	.0	.0	.0	.0	2.7	3.1	2.3	1.3	.1	3.0	.3	87.3
TOT OBS:	1408														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000	1.1	1.3	.5	.0	.0	.0	.0	2.9	3.5	5.6	1.1	.0	1.9	.3	84.8	
0600	1.2	1.2	.9	.0	.0	.0	.0	3.2	2.6	2.9	1.7	.0	2.0	.0	87.5	
1200	1.0	.3	.3	.0	.0	.0	.0	1.5	3.9	.3	1.5	.3	3.4	.5	88.9	
1800	.6	1.7	.9	.0	.0	.0	.0	3.1	2.3	.9	1.7	.0	4.3	.6	87.2	
TOT PCT	1.0	1.1	.6	.0	.0	.0	.0	2.7	3.1	2.4	1.5	.1	2.9	.3	87.1	
TOT OBS:	1459															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	1.3	.2	.0	.0	.0		2.0	5.6	.5	5.2	2.0	5.5	2.0	.6	1.0	1.0	
NE	.2	.7	.1	.1	.0	.0		1.1	7.2	.6	1.7	.8	1.7	2.0	1.1	1.0	.3	
E	.7	1.2	.2	.0	.0	.0		2.0	5.8	2.3	3.0	.7	2.4	2.5	2.6	1.0	1.0	
SE	1.2	7.1	1.7	.0	.0	.0		10.1	7.2	10.8	7.5	11.6	8.0	8.7	10.2	13.0	10.8	
S	3.1	22.3	7.0	.1	.0	.0		32.4	8.1	31.6	26.8	34.1	29.7	34.6	32.3	35.8	32.9	
SW	2.9	25.3	4.9	.2	.0	.0		32.2	7.8	35.4	31.9	29.0	28.7	28.9	38.4	34.6	39.4	
W	1.6	8.6	1.0	.1	.0	.0		11.3	7.0	10.5	16.4	9.2	14.4	13.1	10.1	7.6	9.2	
NW	.7	1.9	.3	.0	.0	.0		2.8	6.3	2.3	3.5	5.2	5.2	3.5	1.4	.6	1.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1							5.1	.0	5.9	4.1	7.2	4.4	4.8	3.5	5.5	4.2	
TOT OBS	451	1931	433	14	0	0	2829		7.2	595	295	305	229	525	258	311	311	
TOT PCT	15.9	68.3	15.3	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	1.5	.5	.0	.0	.0	2.0	5.6	2.1	3.5	1.6	1.0
NE	.7	.3	.1	.0	.0	1.1	7.2	1.0	1.2	1.7	.6
E	1.3	.7	.0	.0	.0	2.0	5.8	2.5	1.5	2.5	1.0
SE	5.4	4.6	.1	.0	.0	10.1	7.2	9.7	10.1	9.2	11.9
S	13.2	18.1	1.1	.0	.0	32.4	8.1	30.0	32.2	33.8	34.3
SW	13.4	18.9	.9	.0	.0	33.2	7.8	34.3	28.9	32.0	37.0
W	5.9	5.1	.2	.0	.0	11.3	7.0	12.5	11.4	12.1	8.4
NW	1.7	1.0	.1	.0	.0	2.8	6.3	2.7	5.2	2.8	.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1					5.1	.0	5.3	6.0	4.3	4.8
TOT OBS	1362	1391	74	2	2829		7.2	890	534	783	622
TOT PCT	48.1	49.2	2.6	.1	.0	100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	5.3	12.2	67.6	14.4	.4	.0	.0	.0	7.0	100.0	890
06609	6.0	10.9	69.7	13.5	.0	.0	.0	.0	7.1	100.0	534
12615	4.3	11.1	67.4	16.3	.8	.0	.0	.0	7.5	100.0	783
18621	4.8	8.7	69.0	16.9	.6	.0	.0	.0	7.4	100.0	622
TOT	143	308	1931	433	14	0	0	0	7.2		2829
PCT	5.1	10.9	68.3	15.3	.5	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 E	TOTAL	MEAN CLOUD COVER
			OBS	OBS		
N	.2	.2	.3	.2		4.7
NE	.3	.1	.2	.1		4.0
E	.6	.3	.2	.6		4.5
SE	2.6	2.2	3.7	2.5		4.8
S	5.4	8.3	17.6	7.7		5.2
SW	7.1	7.7	11.2	4.7		4.5
W	2.3	1.8	3.5	1.7		4.5
NW	.5	.4	.8	.5		4.8
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.0	1.9	.5		4.2
TOT OBS	236	254	458	214	1162	4.8
TOT PCT	20.3	21.9	39.4	18.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	.4	
NE	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.6	
E	.1	.0	.2	.2	.2	.1	.0	.0	.0	.0	1.0	
SE	.0	.0	.1	1.2	1.0	1.1	.3	.2	.0	.0	7.1	
S	.0	.0	.3	3.0	5.7	4.4	1.7	.4	.0	.3	23.0	
SW	.1	.1	.5	.8	3.1	2.7	1.2	.5	.3	.2	21.3	
W	.1	.0	.0	.9	.9	.7	.3	.1	.0	.1	6.1	
NW	.0	.0	.1	.3	.1	.4	.1	.1	.0	.1	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.5	.6	.4	.0	.0	.0	3.1	
TOT OBS	3	1	13	76	135	117	47	15	3	11	741	1162
TOT PCT	.3	.1	1.1	6.5	11.6	10.1	4.0	1.3	.3	.9	63.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	1.0	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.6	2.3	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	5.2	6.0	6.5	6.5	6.5	6.5	6.5	6.5
= OR >2000	12.9	15.4	16.4	16.4	16.4	16.4	16.4	16.4
= OR >1000	22.3	26.8	28.0	28.0	28.0	28.0	28.0	28.0
= OR >600	27.8	33.2	34.5	34.5	34.5	34.5	34.5	34.5
= OR >300	28.5	34.5	35.7	35.7	35.7	35.7	35.7	35.7
= OR >150	28.6	34.6	35.8	35.8	35.8	35.8	35.8	35.8
= OR >0	28.7	34.6	35.9	36.0	36.0	36.1	36.1	36.1
TOTAL	344	415	430	431	431	432	432	432

TOTAL NUMBER OF OBS: 1198

PCT FREQ NH <5/8: 63.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.0	9.4	15.3	17.6	13.1	10.5	10.1	5.7	10.2	.2	1272

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.1	.0	.0	.4	.2	.0	.0	.0	.8	
	TOT %	.1	.0	.1	.0	.0	.4	.2	.0	.0	.0	.8	
2<5	PCP	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	
	NO PCP	.2	.2	.1	.1	.2	.5	.2	.5	.0	.4	2.4	
	TOT %	.2	.2	.1	.1	.2	.7	.2	.5	.0	.4	2.7	
5<10	PCP	.0	.1	.1	.3	.3	.2	.1	.1	.0	.0	1.2	
	NO PCP	.6	.3	.5	1.3	4.0	6.2	2.0	.5	.0	1.6	17.0	
	TOT %	.6	.4	.6	1.7	4.3	6.5	2.1	.6	.0	1.6	18.2	
10+	PCP	.0	.0	.0	.2	.5	.3	.2	.1	.0	.0	1.2	
	NO PCP	.6	.4	.8	8.7	31.9	24.0	6.7	1.2	.0	2.7	77.0	
	TOT %	.6	.4	.8	8.9	32.4	24.3	6.9	1.2	.0	2.7	78.2	
TOT OBS													1408
TOT PCT		1.4	.9	1.6	10.6	37.0	32.0	9.6	2.3	.0	4.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.4	
	4-10	.0	.0	.1	.0	.1	.2	.2	.0	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.1	.3	.2	.0	.0	.2	1.1	
2<5	0-3	.1	.1	.0	.1	.0	.1	.2	.1	.0	.4	1.2	
	4-10	.0	.0	.0	.1	.3	.4	.1	.2	.0	.0	1.2	
	11-21	.0	.0	.0	.0	.1	.2	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.1	.2	.5	.7	.3	.5	.0	.4	3.0	
5<10	0-3	.0	.1	.3	.4	1.0	.5	.4	.2	.0	1.7	4.6	
	4-10	.5	.2	.2	1.1	2.5	4.1	1.9	.4	.0	.0	11.0	
	11-21	.1	.0	.1	.4	1.0	1.3	.1	.0	.0	.0	3.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.4	.6	1.9	4.5	6.0	2.5	.6	.0	1.7	18.8	
10+	0-3	.3	.1	.3	.6	2.2	2.5	1.3	.5	.0	2.8	10.6	
	4-10	.8	.5	.7	5.7	19.9	20.8	5.4	1.2	.0	.0	54.9	
	11-21	.1	.1	.0	1.6	5.4	2.5	.6	.2	.0	.0	10.5	
	22+	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.5	
	TOT %	1.1	.7	1.0	8.0	27.6	26.0	7.4	1.9	.0	2.8	76.4	
TOT OBS													2059
TOT PCT		2.0	1.2	1.8	10.1	32.7	33.0	10.4	3.1	.0	5.7	100.0	

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PERIOD: (PRIMARY) 1923-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.7	.0	1.7	3.7	8.8	9.1	2.4	2.0	.3	1.0	29.6	70.4	297
06009	.0	.0	1.0	6.2	14.1	10.2	3.3	1.0	.0	1.6	37.4	62.6	305
12015	.0	.0	1.2	8.1	9.9	10.2	5.1	1.2	.6	.6	37.0	63.0	332
18021	.3	.3	1.0	6.5	12.1	9.1	4.9	1.0	.0	.7	35.8	64.2	307
TOT PCT	3 .2	1 .1	15 1.2	77 6.2	139 11.2	120 9.7	49 3.9	16 1.3	3 .2	12 1.0	435 35.1	806 64.9	1241 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.2	1.6	2.5	19.8	75.5	637
06009	.0	.2	.0	3.8	18.6	77.4	442
12015	.5	.4	1.1	3.3	18.8	76.0	549
18021	1.0	.0	1.4	2.3	17.2	78.1	483
TOT PCT	11 .5	4 .2	23 1.1	62 2.9	394 18.7	1617 76.6	2111 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH < 5/8 AND 5+	TOTAL OBS
00003	.7	2.5	7.9	24.0	68.1	279
06009	.0	1.0	10.5	29.5	60.0	295
12015	.0	1.2	12.8	26.3	60.9	327
18021	.3	1.7	10.8	27.3	62.0	297
TOT PCT	3 .3	19 1.6	127 10.6	321 26.8	750 62.6	1198 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.3	.1	.0	5	.4
85/89	.0	.0	.0	.0	.3	2.4	.5	.5	45	3.8
80/84	.0	.0	.0	.1	.6	17.2	42.8	7.6	815	68.2
75/79	.0	.0	.0	.0	.2	2.0	16.3	8.8	326	27.3
70/74	.0	.0	.0	.0	.0	.2	.0	.2	4	.3
TOTAL PCT	.0	.0	.0	.1	14 2.0	263 22.0	713 59.7	204 17.1	1195	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.1	.0	.2	.0	.1	.0	.0	.1
85/89	.1	.2	.0	.1	1.3	1.4	.2	.0	.0	.6
80/84	.6	.4	.8	7.2	24.9	23.7	6.7	1.2	.0	2.7
75/79	.4	.2	.4	3.2	13.4	6.5	1.7	.8	.0	.8
70/74	.0	.0	.1	*	.1	.1	.0	.0	.0	.0
TOTAL PCT	1.1	.8	1.4	10.5	39.8	31.7	8.7	2.0	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	83	82	80	77	75	73	80.1	889
06009	87	84	83	80	77	76	74	80.1	539
12015	93	89	86	82	78	75	72	82.1	784
18021	91	86	84	81	78	76	73	81.0	615
TOT	93	87	84	81	77	75	72	80.8	2827

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.3	8.7	68.6	22.4	85	322
06009	.0	.3	.3	15.4	62.1	21.8	85	293
12015	.0	.0	2.2	42.3	46.0	9.6	81	324
18021	.0	.0	1.7	21.7	63.4	13.2	83	295
TOT	0	1	14	274	739	206	83	1234

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PERIOD: (PRIMARY) 1923-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.1	.0	.1	3	.0	.2
9/10	.0	.0	.1	.2	.0	.1	.1	7	.0	.5
7/8	.0	.0	.1	.1	.2	.4	.0	11	.1	.7
6	.0	.0	.0	.0	.3	.1	.0	6	.1	.4
5	.0	.0	.0	.2	.4	.1	.0	10	.0	.7
4	.0	.0	.0	.7	.1	.0	.0	11	.0	.8
3	.1	.0	.0	.9	.9	.0	.0	26	.0	1.9
2	.0	.1	.2	2.9	.8	.1	.0	56	.0	4.1
1	.0	.0	1.8	7.6	.7	.0	.0	139	.1	10.0
0	.0	.0	5.5	11.3	.1	.0	.0	233	.3	16.7
-1	.0	.1	11.1	12.9	.1	.0	.0	334	.4	23.9
-2	.0	.1	10.5	8.2	.1	.0	.0	261	.3	18.7
-3	.0	.3	5.7	3.0	.0	.0	.0	123	.1	8.9
-4	.0	.4	3.9	1.5	.0	.0	.0	78	.0	5.7
-5	.1	.3	2.2	.8	.0	.0	.0	46	.1	3.2
-6	.0	.1	.7	.1	.0	.0	.0	12	.0	.9
-7/-8	.0	.6	.5	.1	.0	.0	.0	17	.0	1.2
-9/-10	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2		580		56		2	1375		1355
PCT	.1	2.2	42.2	50.5	4.1	.8	.1	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.5	.0	.0	.0	.0	1.0	.1	.3	.1	.0	.0	.0	.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.2	.5	.0	.0	.0	.0	.7
1-2	.1	.4	.1	.0	.0	.0	.6	.4	3.8	.8	.0	.0	.0	5.0
3-4	.0	.0	.1	.0	.0	.0	.1	.0	1.1	1.2	.0	.0	.0	2.3
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.6	.7	.1	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.5	.0	.0	.0	1.2	.5	6.0	3.2	.1	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1975

DECEMBER

AREA 0012 ACCRA
3.0N .3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.7	.5	.0	.0	.0	5.7	1.8	4.7	.4	.0	.0	.0	6.9
1-2	.7	15.7	2.2	.0	.0	.0	18.6	.4	13.0	1.4	.0	.0	.0	14.8
3-4	.0	6.6	6.5	.0	.0	.0	13.0	.0	3.9	.9	.0	.0	.0	4.8
5-6	.0	1.1	2.1	.0	.0	.0	3.2	.0	.6	.7	.0	.0	.0	1.2
7	.0	.1	.5	.0	.0	.0	.5	.0	.4	.2	.0	.0	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	27.2	11.8	.0	.0	.0	41.2	2.2	22.6	3.4	.0	.0	.0	28.2

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.8	1.1	.2	.0	.0	.0	2.1	.2	.3	.0	.0	.0	.0	.5	93.8
1-2	.8	4.7	.5	.0	.0	.0	6.0	.3	1.0	.4	.0	.0	.0	1.7	
3-4	.0	.8	.1	.1	.0	.0	1.0	.0	.2	.2	.0	.0	.0	.4	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	6.7	.9	.1	.0	.0	9.4	.5	1.5	.6	.0	.0	.0	2.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.4	10.8	1.1	.0	.0	.0	24.3	849
1-2	3.1	38.0	5.2	.0	.0	.0	46.3	
3-4	.0	12.6	8.8	.1	.0	.0	21.6	
5-6	.0	2.4	3.7	.1	.0	.0	6.1	
7	.0	.5	1.1	.0	.0	.0	1.5	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.4	64.3	20.0	.2	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.8	16.9	15.7	5.8	2.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	508	3
6-7	.1	3.0	8.8	4.2	3.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	4
8-9	.0	2.6	2.6	2.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	4
10-11	.0	2.6	.8	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	3
12-13	.0	.0	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	3
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	6.3	7.9	3.8	.7	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	2
TOTAL	134	362	362	152	69	10	2	2	2	0	0	0	0	0	0	0	0	0	0	1095	3
PCT	12.2	33.1	33.1	13.9	6.3	.9	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1855-1976

ANNUAL

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3.2N .3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.6	1.3	1.6	.0	.0	.0	.0	5.4	2.0	7.1	4.2	.4	3.9	.4	77.1
NE	6.8	1.0	2.7	.0	.0	.0	.0	10.6	2.7	4.7	4.5	.0	4.2	.0	75.3
E	5.4	3.9	1.0	.0	.0	.0	.0	10.1	2.8	3.9	3.3	.0	4.3	.5	75.6
SE	1.8	1.6	1.0	.0	.0	.0	.0	4.3	3.7	2.5	1.2	.0	1.1	.2	87.3
S	1.5	1.6	.5	.0	.0	.0	*	3.6	3.3	2.3	.6	.0	.7	*	89.8
SW	1.7	1.9	.6	.0	.0	.0	*	4.1	3.1	2.4	1.1	*	1.1	.1	88.2
W	2.4	1.7	.5	.0	.0	.0	*	4.7	2.2	3.2	2.4	.1	1.9	.1	85.6
NW	4.9	.8	.7	.0	.0	.0	.2	6.6	4.5	4.2	4.7	.0	2.0	.7	78.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.6	.6	.0	.0	.0	.0	2.2	1.3	4.8	5.1	.3	1.9	.2	84.2
TOT PCT	1.9	1.7	.6	.0	.0	.0	*	4.1	3.1	2.6	1.4	*	1.3	.1	87.6
TOT OBS: 18655															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	1.6	1.9	.6	.0	.0	.0	*	4.1	2.9	5.8	1.5	.0	1.4	.1	84.5
06009	2.3	2.0	.9	.0	.0	.0	.0	5.2	3.7	2.8	1.5	.0	1.0	.2	85.9
12015	2.0	1.7	.3	.0	.0	.0	*	4.0	2.9	.4	1.4	.1	1.6	.2	89.5
18021	2.0	1.3	.7	.0	.0	.0	.0	3.9	2.7	1.7	1.2	*	1.2	.2	89.2
TOT PCT	1.9	1.7	.6	.0	.0	.0	*	4.3	3.1	2.7	1.4	*	1.3	.2	87.3
TOT OBS: 19316															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	.9	.1	*	.0	.0		1.4	6.0		1.0	2.9	1.4	3.3	1.4	.6	.6	.8
NE	.3	.7	.2	*	.0	.0		1.2	6.7		1.0	2.4	.8	2.5	1.4	.8	.7	.7
E	.5	1.1	.3	*	.0	.0		1.9	6.6		2.1	2.2	1.5	1.7	2.0	1.8	1.6	1.8
SE	1.0	5.7	1.7	*	*	.0		8.4	7.7		9.1	7.7	8.4	6.3	8.6	7.4	9.5	9.2
S	2.8	22.2	8.5	.2	.0	.0		33.7	8.4		33.5	24.3	38.1	28.7	35.3	32.6	42.0	31.0
SW	2.5	24.5	8.1	.2	*	.0		35.4	8.5		36.0	34.7	32.4	32.2	32.8	41.6	34.4	40.5
W	1.3	8.2	2.2	*	*	.0		11.8	7.8		11.0	16.4	9.7	15.9	12.5	12.1	7.4	11.5
NW	.4	1.5	.3	*	.0	.0		2.2	6.8		1.5	4.1	2.5	4.9	2.4	1.2	1.1	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0		4.7	5.4	5.2	4.6	3.6	2.0	2.7	3.3
TOT OBS							33835		7.9		6964	3356	3870	2605	6387	3091	3934	3628
TOT PCT	13.2	64.9	21.3	.6	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	.9	.4	*	*	.0		1.4	6.0	1.6	2.2	1.2	.7
NE	.7	.4	.1	*	.0		1.2	6.7	1.5	1.4	1.2	.7
E	1.1	.6	.1	*	*		1.9	6.6	2.1	1.6	1.9	1.7
SE	3.8	4.3	.3	*	*		8.4	7.7	8.6	7.6	8.2	9.3
S	12.0	20.3	1.4	*	.0		33.7	8.4	30.5	34.2	34.4	36.7
SW	12.5	21.5	1.3	*	*		35.4	8.5	35.6	32.3	35.6	37.3
W	5.2	6.3	.3	*	.0		11.8	7.8	12.7	12.2	12.4	9.4
NW	1.3	.9	*	*	.0		2.2	6.8	2.4	3.5	2.0	1.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	4.9	5.0	3.1	3.0
TOT OBS						33835		7.9	10320	6475	9478	7562
TOT PCT	41.4	54.8	3.6	.1	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
000503	4.9	9.5	65.0	20.0	.6	*	.0	7.7	100.0	10320
060809	5.0	9.6	64.7	20.3	.5	*	.0	7.8	100.0	6475
122615	3.1	9.6	64.3	22.4	.7	*	.0	8.0	100.0	9478
186211	3.0	8.0	65.7	22.8	.5	.1	.0	8.0	100.0	7562
TOT								7.9		33835
PCT	4.0	9.2	64.9	21.3	.6	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION					MEAN
WIND DIR	0-2	3-4	5-7	8 & OBS	CLOUD COVER
N	.3	.1	.3	.3	5.4
NE	.2	.1	.2	.3	4.8
E	.3	.2	.5	.5	4.5
SE	1.2	2.2	3.4	1.8	4.9
S	7.1	9.6	16.4	9.4	5.0
SW	6.4	7.0	11.7	6.9	4.9
W	1.6	1.6	3.2	1.8	5.1
NW	.2	.2	.7	.5	5.7
VAR	.0	.0	.0	.0	.0
CALM	.9	.7	1.0	.6	4.5
TOT OBS					14923
TOT PCT	18.8	21.6	37.6	22.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 5/8$ BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	K5/8 HGT	TOTAL DBS
*	.0	*	.1	.1	*	*	*	*	*	*	.6	
*	.0	*	.1	.1	*	*	*	*	*	*	.4	
*	*	*	.1	.2	.3	.1	.0	*	*	*	.9	
*	*	.1	.6	1.3	.9	.3	.1	*	*	*	5.7	
.1	* .1	3.1	6.6	4.9	1.3	.3	.2	.5	25.0			
.1	.1	.4	2.0	4.2	3.5	1.0	.3	.1	.4	19.9		
*	*	.1	5.1	1.0	.9	.1	*	.1	.2	5.0		
.0	.0	.1	.1	.2	.1	*	*	*	.8			
.0	.0	.	.	.	.	.0	.0	.0	.0			
*	.0	*	.2	.3	.4	.1	*	*	.1	2.1		
.3	.2	1.2	6.8	14.1	11.3	3.1	.9	.5	1.4	60.4	14923	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

	VSBY (NM)							
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	1.8	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3500	4.5	5.7	5.8	5.8	5.8	5.8	5.9	5.9
= OR >2000	13.6	16.6	17.0	17.0	17.0	17.1	17.1	17.1
= OR >1000	24.8	30.1	30.9	31.0	31.0	31.1	31.1	31.1
= OR >600	39.9	39.5	37.6	37.6	37.7	37.7	37.8	37.8
= OR >300	30.5	37.9	38.8	38.9	38.9	39.0	39.0	39.0
= OR >150	30.6	37.7	38.9	39.1	39.1	39.1	39.2	39.2
= OR > 0	30.7	37.9	39.1	39.3	39.3	39.4	39.4	39.5

TOTAL NUMBER OF OBS: 15330

PCT FREQ NH <5/8: 60.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.3	8.9	15.2	15.2	12.5	8.1	9.8	7.9	13.9	.3	16120

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1859-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	.1	*	.0	*	.2	
	TOT %	*	*	*	*	*	.1	.1	*	.0	*	.3	
1/2<1	PCP	.0	*	*	*	*	*	*	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.7	
	TOT %	.1	.1	.1	.1	.1	.2	.1	.1	.0	*	.8	
1<2	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	.1	.1	.1	.2	.1	*	.0	*	.6	
	TOT %	*	*	.1	.1	.1	.2	.1	*	.0	*	.8	
2<5	PCP	*	*	*	*	.2	.2	.1	*	.0	*	.6	
	NO PCP	.1	.1	*	.1	.3	.4	.2	.1	.0	.2	1.5	
	TOT %	.1	.1	.1	.1	.5	.6	.3	.1	.0	.2	2.0	
5<10	PCP	*	.1	.1	.2	.6	.7	.2	.1	.0	*	2.0	
	NO PCP	.4	.4	.5	1.3	4.9	6.6	2.9	.5	.0	.8	18.2	
	TOT %	.4	.4	.6	1.6	5.5	7.3	3.1	.6	.0	.8	20.2	
10+	PCP	*	*	.1	.1	.5	.4	.1	*	.0	*	1.3	
	NO PCP	.5	.4	1.0	7.0	32.5	24.4	5.7	1.1	.0	2.1	74.7	
	TOT %	.5	.5	1.0	7.1	33.0	24.8	5.9	1.1	.0	2.1	76.0	
TOT OBS													18613
TOT PCT		1.2	1.1	1.9	8.9	39.2	33.1	9.5	1.9	.0	3.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	*	*	*	*	.0	.0	.4	.5	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	.0	.0	.0	.0	*	*	*	*	.0	*	*	
	22+	.0	.0	*	*	*	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	.1	.1	*	.0	.4	.7	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	.1	*	*	.0	*	.4	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	.1	.1	.1	.1	.1	*	.0	*	.6	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	*	*	*	.1	.2	.1	*	.0	*	.4	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	*	*	*	.0	*	*	*	*	.0	*	*	
	TOT %	*	*	.1	.1	.1	.2	.1	*	.0	.1	.8	
2<5	0-3	*	*	*	*	.1	.1	.1	*	.0	.3	.7	
	4-10	*	*	*	.1	.3	.4	.2	.1	.0	1.3	.5	
	11-21	*	*	*	*	.2	.2	.1	*	.0	*	*	
	22+	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	.1	.1	.1	.2	.5	.7	.4	.1	.0	.3	2.6	
5<10	0-3	.1	.1	.2	.3	.6	.7	.3	.1	.0	.8	3.2	
	4-10	.3	.2	.3	1.0	3.3	4.6	1.9	.4	.0	11.9	4.3	
	11-21	*	.1	.1	.2	1.3	1.9	.7	.1	.0	*	*	
	22+	*	*	*	*	*	.1	*	*	.0	*	.1	
	TOT %	.4	.4	.5	1.5	5.2	7.2	2.9	.6	.0	.8	19.6	
10+	0-3	.2	.1	.2	.6	2.1	1.8	.7	.2	.0	2.4	8.2	
	4-10	.5	.3	.7	4.5	19.7	19.0	5.0	.8	.0	50.5	16.7	
	11-21	.1	.1	.2	1.5	7.5	5.9	1.5	.2	.0	*	.3	
	22+	*	*	*	*	.1	.1	*	*	.0	*	*	
	TOT %	.7	.5	1.1	6.6	29.4	26.7	7.2	1.2	.0	2.4	75.8	
TOT OBS													25613
TOT PCT		1.3	1.1	1.8	8.4	35.4	35.1	10.7	2.0	.0	4.1	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1855-1976

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TABLE 10

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.4	.2	1.2	5.4	12.1	9.1	2.3	.8	.4	1.3	33.3	66.7	3548
06009	.3	.2	1.5	8.2	16.3	12.2	3.8	.9	.3	1.6	45.3	54.7	3954
12015	.2	.2	1.0	6.0	13.1	11.7	3.1	.9	.6	1.2	38.0	62.0	4291
18021	.2	.2	1.1	6.6	13.1	10.6	2.9	.8	.6	1.4	37.5	62.5	3968
TOT PCT	.3	.2	1.2	6.5	13.7	11.0	3.0	.9	.5	1.4	38.6	61.4	15761 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.8	.9	2.5	22.9	72.2	7523
06009	.8	.6	.7	3.0	18.5	76.3	5509
12015	.5	.7	.8	2.5	19.3	76.2	7158
18021	.7	.4	.7	2.5	17.6	78.1	6091
TOT PCT	.7	.6	.8	2.6	19.8	75.5	26281 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.4	2.0	9.0	26.4	64.6	3405
06009	.3	2.4	12.8	34.4	52.7	3858
12015	.2	1.5	9.4	30.2	60.5	4188
18021	.2	1.7	10.1	29.0	60.9	3879
TOT PCT	.3	1.9	10.3	30.1	59.6	15330 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	.1	.1	*	.0		.3
85/89	.0	.0	*	*	.4	3.0	1.1	.1		4.5
80/84	.0	.0	*	.1	.9	15.1	28.4	4.5		48.9
75/79	.0	.0	.0	*	.4	6.3	22.5	9.3		38.5
70/74	.0	.0	.0	.1	.9	3.1	3.6	7.7		14.3
65/69	.0	.0	.0	.0	.0	*	*	.1		1.1
TOTAL PCT	.0	.0	*	.1	1.9	25.4	55.1	17.5	15248	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	*	.0	*	*	.1	.1	*	.0	.0	*
85/89	.1	*	.1	.4	1.4	1.7	.5	.1	.0	.2
80/84	.5	.4	.9	5.0	18.6	16.1	4.8	.9	.0	1.8
75/79	.4	.4	.5	2.9	17.8	12.8	2.6	.6	.0	.6
70/74	*	.1	.1	.9	3.8	1.9	.5	.1	.0	.3
65/69	.0	.0	.0	*	*	*	*	*	.0	.0
TOTAL	1.0	.9	1.6	9.3	41.8	32.6	8.4	1.6	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	83	82	79	75	73	66	78.8	10400
06009	91	84	82	79	75	72	66	79.0	6532
12015	95	88	85	81	76	74	65	81.0	9519
18021	93	85	83	80	76	73	64	79.7	7546
TOT	95	86	83	80	75	73	64	79.6	33997

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	1.0	15.8	59.6	23.5	85	4169
06009	.0	*	1.2	19.7	56.8	22.3	84	3680
12015	.0	.2	3.6	39.6	46.2	10.4	81	4159
18021	.0	.1	1.8	25.4	57.5	15.3	83	3762
TOT	0	17	307	4036	8637	2773	83	15770

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1855-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	*	*	.0	.0	3	*	*
11/13	.0	.0	.0	*	*	*	*	*	24	.0	.1
9/10	.0	.0	*	*	.1	.1	.1	*	53	*	.3
7/8	.0	*	*	.1	.2	.1	.2	*	120	*	.6
6	.0	*	*	.1	.1	.1	.1	.0	81	*	.4
5	.0	*	.1	.2	.3	.3	.1	*	185	*	1.0
4	.0	*	.1	.4	.6	.4	.1	.0	301	.1	1.6
3	.0	.1	.3	.6	.7	.5	.1	.0	393	*	2.2
2	.0	.2	.7	1.4	2.0	.9	*	.0	929	.1	5.1
1	.0	.1	1.9	2.7	4.0	.8	*	.0	1700	.2	9.3
0	*	.3	2.7	5.6	8.7	1.0	*	.0	3261	.3	18.0
-1	.0	.3	3.4	6.9	9.7	.4	.0	.0	3676	.2	20.4
-2	*	.2	3.2	6.4	6.6	.2	*	.0	2957	.2	16.4
-3	.0	.2	2.2	4.2	3.0	.1	.0	.0	1729	.1	9.6
-4	.0	.2	1.5	2.8	1.9	.1	.0	.0	1158	*	6.4
-5	*	.1	1.0	1.7	.9	*	.0	.0	692	.1	3.8
-6	.0	*	.5	.7	.2	*	.0	.0	250	*	1.4
-7/-8	.0	.1	.6	.5	.1	*	.0	.0	243	*	1.3
-9/-10	*	*	.2	.1	*	.0	.0	.0	69	*	.4
-11/-13	*	*	.1	*	.0	.0	.0	.0	27	.0	.1
-14/-16	.0	*	*	*	.0	.0	.0	.0	5	.0	*
TOTAL									17856		
PCT	*	1.9	18.5	34.5	39.2	5.1	.7	.1	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	.4	*	.1	*	.0	.0	.0	.0	.2	
1-2	*	.3	.1	.0	.0	.0	.4	.1	.2	*	.0	.0	.0	.0	.3	
3-4	*	.1	*	.0	.0	.0	.1	*	.1	.1	.0	.0	.0	.0	.2	
5-6	.0	.0	*	*	.0	.0	*	.0	*	*	*	*	*	*	*	
7	.0	.0	.0	*	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.6	.1	*	.0	.0	1.0	.1	.5	.2	*	*	*	.0	.8	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.3	.2	.9	*	.0	.0	.0	.0	1.2	
1-2	*	.4	.1	.0	.0	.0	.5	.2	3.5	.5	.0	.0	.0	.0	4.2	
3-4	*	.1	*	.0	.0	.0	.3	*	1.0	1.1	*	.0	.0	.0	2.1	
5-6	.0	*	.1	*	.0	.0	.1	.0	.2	.4	*	*	*	*	.6	
7	.0	.0	*	*	.0	.0	*	.0	*	.1	.0	*	*	*	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.7	.3	*	.0	.0	1.3	.4	5.6	2.2	*	*	*	.0	8.2	

PERIOD: (OVER-ALL) 1963-1976

ANNUAL

TABLE 18 (CONT)

AREA 0012 ACCRA
3.2N .3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.5	.2	.0	.0	.0	4.6	1.2	3.7	.2	.0	.0	.0	5.2
1-2	.8	16.4	3.7	.0	.0	.0	21.0	.5	13.2	2.9	.0	.0	.0	16.6
3-4	.*	6.1	5.5	.1	.0	.0	11.7	.*	4.2	3.8	.1	.0	.0	8.2
5-6	.0	1.0	2.9	.1	.0	.0	4.0	.0	.7	1.3	.*	.0	.0	2.0
7	.0	.2	.6	.1	.0	.0	.9	.0	.1	.4	.*	.0	.0	.5
8-9	.0	.*	.1	.*	.0	.0	.1	.0	.0	.*	.*	.0	.0	.1
10-11	.0	.*	.0	.*	.0	.0	.*	.0	.*	.*	.0	.0	.0	.*
12	.0	.0	.*	.0	.0	.0	.*	.0	.0	.*	.0	.0	.0	.*
13-16	.0	.0	.*	.*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.*	.0	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	27.2	13.0	.2	.0	.0	42.4	1.8	21.9	8.6	.2	.*	.0	32.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.4	.1	.0	.0	.0	1.9	.2	.4	.0	.0	.0	.0	.6	
1-2	.3	3.2	.9	.0	.0	.0	4.4	.1	.6	.2	.0	.0	.0	.9	
3-4	.*	.9	.7	.*	.0	.0	1.7	.0	.1	.1	.*	.0	.0	.2	
5-6	.0	.2	.2	.0	.0	.0	.4	.*	.*	.*	.0	.0	.0	.1	
7	.0	.*	.1	.0	.0	.0	.1	.0	.0	.0	.*	.0	.0	.*	
8-9	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.*	.0	.0	.0	.0	.*	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	5.7	2.0	.*	.0	.0	8.5	.3	1.2	.3	.*	.0	.0	1.8	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	10.4	.5	.0	.0	.0	19.0	
1-2	2.4	37.4	8.2	.0	.0	.0	48.0	
3-4	.2	12.4	11.2	.2	.0	.0	23.9	
5-6	.*	2.0	4.9	.2	.*	.0	7.0	
7	.*	.3	1.2	.1	.*	.0	1.7	
8-9	.*	.*	.2	.*	.0	.0	.2	
10-11	.0	.*	.*	.*	.*	.0	.1	
12	.0	.*	.*	.0	.0	.0	.*	
13-16	.0	.0	.1	.*	.0	.0	.1	
17-19	.0	.*	.*	.0	.0	.0	.*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.6	62.6	26.2	.6	.*	.0	100.0	11539

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	16.3	12.8	4.8	1.3	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5521	3
6-7	*	2.9	8.7	6.0	3.1	.6	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3059	4
8-9	*	1.0	3.1	3.4	1.9	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1462	5
10-11	.0	1.7	1.5	1.2	.7	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	775	4
12-13	.0	.0	1.7	.5	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	4
>13	.0	.0	.0	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	6
INDET	4.9	6.6	6.0	2.1	.9	.2	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2993	2
TOTAL																				14233	3
PCT	8.3	28.4	33.8	18.2	8.2	1.9	.7	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1855-1976

TABLE 20

AREA 0012 ACCRA
3.2N .3W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	3	*
91/92	.0	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	4	*
89/90	.1	.0	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	55	.2
87/88	1.0	1.0	2.7	3.6	1.5	.0	.1	.0	.0	.2	.3	.4	312	1.0
85/86	4.5	6.8	17.0	21.7	12.8	3.1	.3	.2	*	.2	3.1	4.0	2143	6.6
83/84	25.0	34.5	40.4	39.3	38.5	11.3	1.5	.2	.4	2.9	12.3	20.2	6433	19.8
81/82	45.9	40.8	32.2	27.6	34.1	34.7	11.7	1.7	2.9	15.8	45.1	51.0	9517	29.2
79/80	16.8	13.1	5.2	5.5	9.2	24.1	21.0	7.9	10.5	29.2	28.3	20.0	5117	15.7
77/78	4.7	3.0	1.3	1.1	2.6	14.6	26.4	24.8	31.1	32.0	9.4	3.5	3989	12.2
75/76	1.4	.7	.2	.3	.6	6.1	19.5	29.4	29.2	13.0	.9	.4	2572	7.9
73/74	.4	*	.1	.2	.2	4.4	12.1	19.9	16.8	5.0	.5	.1	1509	4.6
71/72	.1	.0	.0	.0	*	1.2	5.5	9.2	6.0	1.2	.1	.2	595	1.8
69/70	.0	.0	.0	.0	.1	.4	1.6	5.2	1.9	.3	*	.1	243	.7
67/68	.0	.0	.0	.0	*	*	.3	1.2	.7	.2	.0	.0	62	.2
65/66	.0	.0	.0	.0	.0	*	.0	.3	.2	*	.0	.0	15	*
63/64	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	2	*
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2843	2696	3044	3079	2729	2526	2730	2502	2339	2600	2775	2707	32571	100.0
MEAN	81.6	82.1	83.0	83.3	82.5	79.9	77.1	75.2	75.9	78.3	80.8	81.5	80.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1010	1011	1011	1009	1010	1010	1010	2107
FEB	1011	1009	1010	1011	1011	1009	1009	1010	1010	1972
MAR	1011	1009	1010	1011	1011	1008	1009	1010	1010	2132
APR	1011	1009	1010	1011	1011	1008	1009	1010	1010	2260
MAY	1012	1010	1011	1012	1012	1010	1011	1011	1011	2001
JUN	1013	1012	1013	1014	1014	1012	1012	1013	1013	1858
JUL	1015	1013	1014	1015	1015	1013	1013	1014	1014	2024
AUG	1015	1013	1014	1015	1015	1013	1013	1014	1014	1916
SEP	1014	1012	1013	1015	1014	1012	1013	1013	1013	1690
OCT	1013	1011	1013	1013	1013	1010	1012	1012	1012	1824
NOV	1012	1010	1011	1012	1012	1009	1011	1011	1011	2014
DEC	1011	1010	1011	1012	1011	1009	1010	1011	1011	1811
ANN	1012	1011	1012	1013	1013	1010	1011	1012	1012	23609
OBS	4939	1584	3817	1357	4943	1529	3856	1584		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1004	1007	1009	1011	1012	1014	1016	1019
FEB	1001	1004	1007	1009	1010	1011	1013	1015	1019
MAR	1001	1003	1006	1009	1010	1011	1013	1016	1019
APR	1002	1004	1007	1009	1010	1011	1013	1015	1019
MAY	1003	1006	1008	1010	1011	1013	1014	1016	1019
JUN	1004	1007	1010	1012	1013	1014	1016	1018	1020
JUL	1006	1009	1011	1013	1014	1016	1017	1018	1022
AUG	1008	1010	1011	1013	1014	1015	1017	1020	1023
SEP	1005	1008	1010	1012	1013	1015	1016	1018	1021
OCT	1004	1008	1009	1011	1012	1014	1015	1017	1021
NOV	1003	1005	1008	1010	1011	1012	1014	1016	1019
DEC	1002	1005	1008	1010	1011	1012	1014	1016	1018

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1867-1976

JANUARY

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.2	2.2	.0	.0	.0	.0	.0	5.4	.0	3.2	10.8	.0	11.9	14.6	55.1
NE	.9	.0	.0	.0	.0	.0	.0	.9	3.4	4.3	19.0	.0	.9	.0	72.4
E	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	2.1	11.4	.0	.0	.0	81.4
SE	3.1	2.9	.0	.0	.0	.0	.0	6.0	3.8	1.2	3.4	.0	1.0	1.9	83.7
S	1.3	1.0	.3	.0	.0	.0	.0	2.5	3.1	2.0	1.8	.0	.9	.0	89.6
SW	2.7	1.6	.0	.0	.0	.0	.0	4.3	1.5	5.6	.9	.0	1.7	1.6	84.9
W	4.4	1.1	.0	.0	.0	.0	.0	5.6	3.4	6.4	3.1	.0	5.0	.0	78.1
NW	7.2	.0	.0	.0	.0	.0	.0	7.2	.0	4.6	10.6	.0	4.9	3.4	71.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.0	.0	.0	.0	.8	.8	1.6	7.4	.0	5.7	1.6	82.8
TOT PCT	2.7	1.2	.1	.0	.0	.0	.0	3.9	2.2	3.7	3.7	.0	2.7	1.4	83.1
TOT OBS:	1347														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.9	2.1	.0	.0	.0	.0	.0	3.0	3.0	8.8	2.1	.0	.9	1.2	81.2
06009	3.7	2.0	.0	.0	.0	.0	.0	5.7	2.6	4.0	6.9	.0	3.4	1.4	77.7
12015	3.4	.7	.0	.0	.0	.0	.0	4.1	1.4	1.7	3.6	.0	3.6	1.2	85.3
18021	2.1	1.2	.3	.0	.0	.0	.0	3.7	2.1	1.8	3.4	.0	3.4	1.5	84.0
TOT PCT	2.6	1.5	.1	.0	.0	.0	.0	4.1	2.3	3.9	4.0	.0	2.9	1.3	82.2
TOT OBS:	1422														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	1.8	.3	.0	.0	.0		3.0	5.9	1.9	2.3	2.1	7.7	3.9	3.0	1.9	2.9	
NE	.7	1.3	.4	.0	.0	.0		2.4	6.4	1.5	2.2	3.2	5.3	3.9	1.2	1.1	.9	
E	.8	1.5	.2	.0	.0	.0		2.5	5.6	2.4	2.5	2.4	3.4	2.5	3.0	1.7	2.7	
SE	1.3	4.7	.7	.0	.0	.0		6.8	6.8	6.0	6.6	7.3	5.9	8.4	6.6	4.8	7.8	
S	3.3	18.9	3.4	.0	.0	.0		25.6	7.1	26.3	24.2	27.3	20.9	27.1	22.0	28.3	25.2	
SW	3.6	23.9	3.3	.0	.0	.0		30.8	7.1	34.2	34.5	30.0	24.9	24.0	35.3	30.4	36.4	
W	2.4	12.1	1.3	.0	.0	.0		15.8	6.7	14.8	20.1	12.5	15.0	13.6	19.3	18.2	15.2	
NW	1.3	4.4	.6	.0	.0	.0		6.3	6.4	4.7	4.6	5.9	9.7	8.2	7.2	5.9	4.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.8							6.8	.0	8.1	3.0	9.2	7.1	8.4	2.3	7.7	4.5	
TOT OBS	622	2013	300	2	0	0	2937		6.4	567	298	347	240	582	305	377	221	
TOT PCT	21.2	68.5	10.2	.1	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	2.1	.8	.1	.0	.0		3.0	5.9	2.1	4.4	3.6	2.3		
NE	1.5	.8	.1	.0	.0		2.4	6.4	1.7	4.1	3.0	1.0		
E	1.8	.7	.0	.0	.0		2.5	5.6	2.5	2.8	2.7	2.0		
SE	3.5	3.1	.1	.0	.0		6.8	6.8	6.2	6.8	7.8	5.9		
S	12.7	12.6	.3	.0	.0		25.6	7.1	25.5	24.7	25.3	27.2		
SW	14.8	15.8	.2	.0	.0		30.8	7.1	34.3	27.9	27.9	32.6		
W	8.4	7.4	.1	.0	.0		15.8	6.7	16.6	13.5	15.5	17.1		
NW	3.8	2.5	.1	.0	.0		6.3	6.4	4.7	7.5	7.9	5.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	6.8						6.8	.0	6.4	8.3	6.3	6.5		
TOT OBS	1626	1282	29	0	0	2937		6.4	865	587	887	598		
TOT PCT	55.4	43.6	1.0	.0	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1923-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	6.4	12.6	70.6	10.4	.0	.0	.0	.0	6.5	100.0	865
0600Z	8.3	15.2	67.0	9.5	.0	.0	.0	.0	6.2	100.0	587
1201Z	6.3	16.2	67.9	9.4	.2	.0	.0	.0	6.3	100.0	887
1802Z	6.5	13.5	68.1	11.9	.0	.0	.0	.0	6.6	100.0	598
TOT	199	423	2013	300	2	0	0	0	6.4		2937
PCT	6.8	14.4	68.5	10.2	.1	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.1	.9	1.0		4.6
NE	.4	.2	.3	.1		3.3
E	1.2	.2	.5	.4		3.2
SE	1.3	1.3	3.8	1.7		5.2
S	4.1	6.8	13.4	8.0		5.4
SW	5.8	6.2	10.4	5.7		4.8
W	1.9	2.3	4.9	3.0		5.2
NW	.4	1.1	1.0	.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	3.0	1.2	2.3	3.3		4.7
TOT OBS	195	199	384	248	1026	5.0
TOT PCT	19.0	19.4	37.4	24.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.0	.3	.1	.3	.2	.0	.0	.3	1.6	
NE	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.9	
E	.0	.0	.0	.2	.3	.1	.0	.1	.0	.1	1.6	
SE	.0	.0	.0	.1	1.0	1.2	.1	.0	.1	.1	5.4	
S	.0	.0	.2	1.9	5.0	4.6	1.0	.2	.3	.3	18.8	
SW	.2	.0	.1	1.8	2.4	3.7	1.1	.0	.3	.5	17.9	
W	.3	.0	.0	.4	2.6	1.5	.4	.0	.0	.2	6.8	
NW	.0	.1	.0	.1	.3	.4	.1	.0	.1	.4	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.9	2.1	.7	.0	.0	.5	5.5	
TOT OBS	7	1	3	51	129	142	39	3	8	25	618	1026
TOT PCT	.7	.1	.3	5.0	12.6	13.8	3.8	.3	.8	2.4	60.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >6500	1.2	2.5	3.0	3.0	3.1
= OR >5000	1.3	2.8	3.3	3.3	3.4
= OR >3500	4.2	6.2	6.9	7.0	7.1
= OR >2000	14.6	19.2	20.5	20.5	20.7
= OR >1000	23.8	31.6	33.3	33.4	33.6
= OR >600	27.6	36.3	38.1	38.4	38.5
= OR >300	27.9	36.6	38.4	38.6	38.8
= OR >150	27.9	36.6	38.5	38.7	38.9
= OR >0	28.1	36.9	39.0	39.3	39.6
TOTAL	298	392	414	417	420

TOTAL NUMBER OF OBS: 1061

PCT FREQ NH <5/8: 60.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.4	9.0	11.8	15.6	12.3	9.7	7.9	8.0	13.8	.5	1106

PERIOD: (PRIMARY) 1923-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	*	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.1	*	*	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.1	*	.1	*	.0	.0	.0	.2	.0	.0	.4	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.4	.1	.3	.5	.4	.3	.1	.0	.4	2.6	
	TOT %	.3	.4	.1	.3	.5	.4	.3	.1	.0	.4	2.7	
1<2	PCP	.0	.0	.1	.0	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.1	.1	.2	.0	.1	.0	.3	1.0	
	TOT %	.1	.1	.1	.1	.1	.2	.0	.1	.0	.3	1.1	
2<5	PCP	.1	.0	.0	.0	.0	.1	.1	*	.0	.0	.4	
	NO PCP	.3	.1	.3	.2	.3	.2	.9	.6	.0	.6	3.6	
	TOT %	.4	.1	.3	.2	.3	.4	1.0	.6	.0	.6	3.9	
5<10	PCP	.0	*	.1	.2	.1	.2	.4	.2	.0	.1	1.3	
	NO PCP	1.6	1.2	.8	1.4	5.0	8.1	4.4	2.5	.0	1.6	26.6	
	TOT %	1.6	1.2	.9	1.7	5.1	8.3	4.9	2.7	.0	1.7	27.9	
10+	PCP	.0	.0	.0	.2	.6	.8	.2	.1	.0	.0	1.9	
	NO PCP	.9	.4	1.1	5.3	22.7	17.8	6.7	1.1	.0	6.1	62.0	
	TOT %	.9	.4	1.1	5.5	23.3	18.6	6.9	1.2	.0	6.1	63.9	
TOT OBS													1346
TOT PCT		3.4	2.2	2.6	7.7	29.3	27.9	13.0	4.9	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	*	*	*	*	.0	.2	.0	.0	.4	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	*	*	*	.0	.2	.0	.0	.5	
1/2<1	0-3	.1	.1	.0	.0	.1	.1	.1	.1	.0	.4	.9	
	4-10	.1	.2	.1	.1	.2	.2	.1	.1	.0	.0	1.2	
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.3	.1	.2	.3	.3	.3	.1	.0	.4	2.2	
1<2	0-3	.1	.2	.0	.1	*	.1	.3	.1	.0	.6	1.3	
	4-10	.1	.2	.1	.0	.1	.1	.2	.2	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.3	.1	.1	.1	.3	.4	.2	.0	.6	2.3	
2<5	0-3	.3	.2	.1	.2	.3	.3	.3	.2	.0	1.0	2.8	
	4-10	.5	.2	.2	.5	.4	.8	.9	1.0	.0	.0	4.5	
	11-21	.2	.1	*	.0	.1	.2	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	.5	.4	.7	.7	1.2	1.2	1.3	.0	1.0	8.0	
5<10	0-3	.4	.3	.3	.4	.8	1.1	.6	.6	.0	2.0	6.6	
	4-10	.8	.5	.3	.9	4.6	6.7	4.0	1.6	.0	.0	19.4	
	11-21	.1	.1	.1	.2	.4	.5	.4	.4	.0	.0	2.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	1.0	.7	1.5	5.8	8.3	5.0	2.5	.0	2.0	28.1	
10+	0-3	.3	.1	.2	.7	1.9	2.5	1.1	.4	.0	4.7	11.9	
	4-10	.4	.1	.7	3.3	15.3	13.4	5.6	.9	.0	.0	39.9	
	11-21	.1	.1	.1	.6	3.0	2.0	1.1	.1	.0	.0	7.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.3	1.0	4.6	20.3	18.0	7.9	1.4	.0	4.7	59.0	
TOT OBS													1937
TOT PCT		3.4	2.5	2.3	7.1	27.2	28.1	14.8	5.8	.0	8.7	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1867-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.4	4.3	10.5	13.2	2.7	.0	.8	.8	33.1	66.9	257
06009	1.5	.4	.4	5.1	12.7	14.9	3.3	.0	.7	2.9	41.8	58.2	275
12015	.3	.0	.3	4.9	14.6	14.6	3.8	1.0	.3	3.5	43.4	56.6	288
18021	.4	.0	.0	5.3	12.4	10.5	4.9	.0	1.1	1.9	36.5	63.5	266
TOT	7	1	3	53	137	145	40	3	8	25	422	664	1086
PCT	.6	.1	.3	4.9	12.6	13.4	3.7	.3	.7	2.3	38.9	61.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	1.9	1.7	7.1	25.6	63.4	524
06009	1.1	4.2	2.4	9.3	26.9	56.2	454
12015	.3	1.3	3.4	7.7	35.1	52.2	596
18021	.7	2.5	1.6	8.2	25.8	61.2	438
TOT	12	48	47	161	578	1166	2012
PCT	.6	2.4	2.3	8.0	28.7	58.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.4	.8	7.3	28.9	63.8	246
06009	1.5	2.6	14.0	31.7	54.2	271
12015	.4	.7	10.7	36.3	53.0	281
18021	.4	1.5	12.2	28.9	58.9	263
TOT	7	15	118	335	608	1062
PCT	.7	1.4	11.1	31.6	57.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.0	.0	2	.2
85/89	.0	.0	.1	.0	.7	3.1	2.5	.2	69	6.6
80/84	.0	.0	.3	.6	2.7	18.8	50.9	6.9	839	80.1
75/79	.0	.0	.0	.0	.3	1.1	6.3	4.9	132	12.6
70/74	.0	.0	.0	.0	.0	.0	.0	.6	6	.6
TOTAL	0	0	4	6	40	242	625	131	1048	100.0
PCT	.0	.0	.4	.6	3.8	23.1	59.6	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
.3	.2	.0	.2	1.3	1.6	.9	.3	.0	1.8
2.4	.6	1.2	6.3	25.3	23.4	9.6	3.6	.0	7.6
.8	.2	.7	1.0	4.2	2.4	1.2	.5	.0	1.6
*	.0	.0	.0	.2	.1	.0	*	.0	.2
3.6	1.0	1.9	7.4	31.1	27.5	11.7	4.5	.0	11.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	84	83	81	78	75	70	80.7	881
06009	88	85	83	81	76	73	71	80.5	606
12015	92	90	87	82	78	75	73	82.5	896
18021	87	86	84	82	78	74	72	81.5	602
TOT	92	87	85	81	78	74	70	81.4	2985

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	1.9	16.2	68.4	12.8	84	266
06009	.0	.4	3.3	16.8	59.0	20.5	84	273
12015	.0	1.3	6.6	36.8	48.0	7.3	80	302
18021	.0	1.2	4.0	22.1	60.5	12.3	82	253
TOT	0	10	44	256	641	143	82	1094

PERIOD: (PRIMARY) 1923-1976
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FUG
11/13	.0	.0	.0	.2	.2	.1	6	.0	.5
9/10	.0	.0	.1	.2	.3	.1	8	.0	.6
7/8	.0	.0	.0	.2	.1	.0	4	.0	.3
6	.0	.0	.1	.0	.2	.0	4	.1	.2
5	.0	.0	.1	.2	.2	.1	8	.0	.6
4	.0	.0	.0	1.0	.3	.0	17	.0	1.4
3	.0	.0	.3	.8	1.1	.0	28	.1	2.2
2	.0	.0	.3	2.3	1.9	.0	56	.3	4.2
1	.0	.0	.5	7.6	1.1	.0	114	.4	8.8
0	.0	.0	2.7	15.7	.5	.0	233	.6	18.2
-1	.0	.1	4.8	21.7	.2	.0	332	.7	26.1
-2	.0	.0	6.1	10.0	.1	.0	201	.5	15.7
-3	.0	.0	4.2	2.7	.0	.0	86	.2	6.7
-4	.1	.0	2.5	2.8	.0	.0	67	.2	5.2
-5	.0	.4	1.9	.6	.0	.0	35	.1	2.7
-6	.0	.4	.5	.1	.0	.0	12	.0	1.0
-7/-8	.2	.3	.6	.1	.0	.0	15	.0	1.2
-9/-10	.0	.4	.1	.0	.0	.0	6	.0	.5
-11/-13	.3	.1	.1	.0	.0	.0	6	.0	.5
-14/-16	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	8	21	308	822	77	3	1239	40	1199
PCT	.6	1.7	24.9	66.3	6.2	.2	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.1	.3	.0	.0	.0	.0	.0	.4
1-2	.2	.9	.2	.0	.0	.0	1.3	.0	.1	.2	.0	.0	.0	.0	.3
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.0	.2	.0	.0	.0	3.0	.1	.4	.5	.0	.0	.0	.0	1.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.1	.0	.0	.0	.4	.8	1.4	.2	.0	.0	.0	.0	2.3
1-2	.2	.7	.2	.0	.0	.0	1.1	.4	2.3	.2	.0	.0	.0	.0	2.9
3-4	.0	.2	.2	.0	.0	.0	.4	.0	1.2	.5	.0	.0	.0	.0	1.7
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	.6	.0	.0	.0	2.0	1.2	5.0	1.0	.0	.0	.0	.0	7.2

PERIOD: (OVER-ALL) 1963-1976

JANUARY

TABLE 18 (CONT)

AREA 0013 GULF OF GUINEA EAST
1.0N 6.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.0	3.7	.8	.0	.0	.0	5.5	2.4	4.5	.2	.0	.0	.0	7.1	
1-2	1.2	14.8	1.2	.0	.0	.0	17.2	1.3	14.4	1.7	.0	.0	.0	17.4	
3-4	.1	4.3	2.0	.0	.0	.0	6.4	.0	2.3	1.2	.0	.0	.0	3.5	
5-6	.0	.1	1.1	.0	.0	.0	1.2	.0	.4	.4	.0	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	22.9	5.1	.0	.0	.0	30.3	3.7	21.7	3.7	.0	.0	.0	29.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.6	2.0	.0	.0	.0	.0	3.5	.4	1.0	.1	.0	.0	.0	1.5		
1-2	.7	6.1	1.0	.0	.0	.0	7.7	.0	1.5	.1	.0	.0	.0	1.5		
3-4	.0	.5	.5	.0	.0	.0	.9	.0	.2	.1	.0	.0	.0	.3		
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	2.2	8.5	1.7	.0	.0	.0	12.4	.4	2.6	.3	.0	.0	.0	3.3	88.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.8	13.8	1.3	.0	.0	.0	35.0	
1-2	4.2	40.0	4.7	.0	.0	.0	48.9	
3-4	.1	8.6	4.6	.0	.0	.0	13.3	
5-6	.0	.5	2.0	.0	.0	.0	2.5	
7	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.2	63.0	12.8	.0	.0	.0	100.0	852

PERIOD: (OVER-ALL) 1950-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.8	22.0	10.5	2.8	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	442	2
6-7	.1	6.4	7.0	2.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	3
8-9	.0	1.7	1.9	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	3
10-11	.0	2.2	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	3
12-13	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	11.4	11.7	5.1	1.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	293	2
TOTAL	201	438	260	80	10	1	0	1	2	1	0	0	0	0	0	0	0	0	0	994	2
PCT	20.2	44.1	26.2	8.0	1.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1860-1976

FEBRUARY

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.5	4.1	.0	.0	.0	.0	.0	9.6	4.1	.0	8.2	.0	.0	.0	78.1
NE	6.8	5.4	5.4	.0	.0	.0	.0	12.2	.0	.0	35.1	.0	1.4	.0	51.4
E	20.3	8.9	.0	.0	.0	.0	.0	29.1	5.1	.0	2.5	.0	3.8	.0	59.5
SE	2.4	.3	.0	.0	.0	.0	.0	2.7	3.6	3.9	3.6	.0	1.2	.0	85.2
S	1.8	1.1	.3	.0	.0	.0	.0	3.2	1.6	2.9	2.3	.0	.3	.0	90.2
SW	1.9	.3	.0	.0	.0	.0	.0	2.1	1.0	3.6	1.7	.0	1.0	.3	90.2
W	2.0	.0	.0	.0	.0	.0	.0	2.0	3.9	2.6	3.5	.0	3.5	.0	84.5
NW	7.2	5.0	.0	.0	.0	.0	.0	12.2	.6	4.4	8.8	.0	1.1	2.2	70.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	.0	.0	.0	.0	.0	1.4	1.4	2.7	1.4	.0	8.2	.0	86.3
TOT PCT	2.6	1.0	.2	.0	.0	.0	.0	3.6	1.9	3.1	3.2	.0	1.6	.2	86.8
TOT OBS:	1134														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.7	.7	.0	.0	.0	.0	.0	2.4	2.1	7.0	2.4	.0	1.4	.0	84.6
0600	4.6	1.1	.4	.0	.0	.0	.0	5.7	2.8	4.6	5.0	.0	.7	.4	81.9
1200	3.2	.6	.3	.0	.0	.0	.0	4.1	1.2	.6	4.4	.0	3.2	.3	86.7
1800	1.8	1.4	.0	.0	.0	.0	.0	3.2	1.1	1.1	1.4	.0	.7	.0	92.5
TOT PCT	2.9	.9	.2	.0	.0	.0	.0	3.9	1.8	3.2	3.4	.0	1.6	.2	86.4
TOT OBS:	1187														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	1.2	.2	*	.0	.0		1.7	7.0	.6	2.0	1.9	3.5	2.8	.8	1.0	.9	
NE	.1	.6	.3	.0	.0	.0		1.1	8.1	.6	.5	2.0	2.5	1.5	.6	.8	.0	
E	.3	1.2	.2	*	.1	.0		1.9	8.1	1.1	1.8	3.6	2.8	2.0	2.1	1.0	1.3	
SE	1.1	4.8	.8	*	.0	.0		6.7	6.7	6.9	5.8	9.9	6.0	6.3	6.7	5.3	7.2	
S	3.4	20.2	3.6	.0	.0	.0		27.2	7.2	27.3	26.8	31.7	23.4	29.3	22.1	27.6	26.4	
SW	3.2	26.3	4.6	.1	.0	.0		34.3	7.4	35.1	34.0	28.2	30.1	31.5	36.7	38.2	42.5	
W	1.6	13.0	2.3	*	.0	.0		16.9	7.3	18.4	20.1	10.1	18.3	15.0	20.9	17.4	16.0	
NW	.8	4.1	.8	.0	.0	.0		5.8	6.8	5.3	7.3	2.4	10.2	6.7	7.4	3.7	3.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5							4.5	.0	4.9	1.8	10.3	3.2	4.9	2.7	5.0	1.9	
TOT OBS	392	1829	325	6	2	0	2554		6.9	494	282	281	216	491	258	318	214	
TOT PCT	15.3	71.6	12.7	.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.0	.6	.1	.0	.0		1.7	7.0	1.1	2.6	2.1	1.0
NE	.4	.6	*	.0	.0		1.1	8.1	.5	2.3	1.2	.5
E	1.2	.5	.1	.1	.0		1.9	8.1	1.3	3.2	2.1	1.1
SE	3.9	2.8	.1	.0	.0		6.7	6.7	6.5	8.2	6.4	6.1
S	13.6	13.0	.5	.0	.0		27.2	7.2	27.1	28.1	26.8	27.1
SW	15.9	17.9	.5	.0	.0		34.3	7.4	34.7	29.0	33.3	39.9
W	8.4	8.2	.2	*	.0		16.9	7.3	19.0	13.6	17.0	16.8
NW	3.3	2.4	*	.0	.0		5.8	6.8	6.0	5.8	6.9	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	3.7	7.2	4.1	3.8
TOT OBS	1336	1175	39	4	0	2554		6.9	776	497	749	532
TOT PCT	52.3	46.0	1.5	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1860-1976

FEBRUARY

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00Z03	3.7	10.1	72.4	13.5	.3	.0	.0	.0	7.1	100.0	776
06Z09	7.2	11.9	68.4	12.1	.4	.0	.0	.0	6.7	100.0	497
12Z15	4.1	11.9	72.1	11.6	.1	.1	.0	.0	6.7	100.0	749
18Z21	3.8	9.4	72.7	13.7	.2	.2	.0	.0	7.2	100.0	532
TOT	116	276	1829	325	6	2	0	0	6.9		2554
PCT	4.5	10.8	71.6	12.7	.2	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.4	.1	.5	.5		5.3
NE	.1	.1	.4	.4		5.8
E	.1	.1	.6	.9		6.4
SE	1.2	1.6	3.0	1.7		5.1
S	6.9	9.1	12.5	7.0		4.7
SW	7.5	8.2	11.9	6.4		4.7
W	2.2	1.8	2.8	3.2		5.0
NW	.3	.5	.4	1.3		5.9
VAR	.0	.0	.0	.0		.0
CALM	2.9	1.4	1.5	.6		3.2
TOT OBS	187	198	290	190	865	4.8
TOT PCT	21.6	22.9	33.5	22.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL OBS
.0	.0	.0	.1	.3	.1	.0	.1	.0	.0	.0	.9	
.0	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.4	
.1	.0	.1	.2	.1	.3	.1	.0	.1	.0	.0	.8	
.0	.1	.2	.6	1.1	.7	.5	.2	.0	.0	.0	4.0	
.0	.1	.8	1.3	4.0	2.3	1.0	.1	.3	.7	24.8		
.1	.0	.4	1.1	3.7	3.1	.7	.7	.3	1.0	22.7		
.0	.0	.0	.5	1.1	1.0	.5	.1	.0	.2	6.7		
.0	.0	.2	.1	.3	.2	.0	.3	.2	.0	1.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.1	.0	.0	.1	.5	.0	.1	.0	.0	.2	5.3		
3	2	15	36	99	67	26	13	9	18	577		865
.3	.2	1.7	4.2	11.4	7.7	3.0	1.5	1.0	2.1	66.7		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.7	3.0	3.0	3.0	3.0	3.0	3.0
= OR >5000	2.8	4.2	4.5	4.5	4.5	4.5	4.5	4.5
= OR >3500	5.2	7.1	7.5	7.5	7.5	7.5	7.5	7.5
= OR >2000	10.5	14.4	15.2	15.2	15.2	15.2	15.2	15.2
= OR >1000	19.2	25.3	26.5	26.7	26.7	26.7	26.7	26.7
= OR >600	22.4	29.1	30.6	30.7	30.7	30.7	30.7	30.7
= OR >300	23.3	30.5	32.2	32.3	32.3	32.4	32.4	32.4
= OR >150	23.3	30.7	32.4	32.5	32.5	32.6	32.6	32.6
= OR >0	23.4	30.9	32.6	32.7	32.7	33.0	33.0	33.0
TOTAL	208	275	290	291	291	293	293	293

TOTAL NUMBER OF OBS: 889

PCT FREQ NH <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.1	11.0	16.6	16.9	12.0	8.0	6.8	6.1	12.2	.2	964

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1860-1976

FEBRUARY

AREA 0013 GULF OF GUINEA EAST
1.0N 6.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.0	.0	.0	.1	.0	.1	.0	.1	.4	
	TOT %	.0	.2	.1	.0	.0	.1	.0	.1	.0	.1	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.1	.5	*	.3	.7	.5	.2	.3	.0	.0	2.6	
	TOT %	.1	.5	*	.3	.7	.6	.2	.3	.0	.0	2.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	NO PCP	.1	.0	.0	.1	.0	.1	.1	*	.0	.3	.7	
	TOT %	.1	.0	.0	.1	.0	.1	.2	.1	.0	.3	.8	
2<5	PCP	.0	.1	.0	.0	.4	.0	.0	.3	.0	.0	.8	
	NO PCP	.2	.1	.1	.2	.5	.3	.6	.0	.0	.2	2.1	
	TOT %	.2	.2	.1	.2	1.0	.3	.6	.3	.0	.2	2.9	
5<10	PCP	.2	.1	.4	.2	.3	.3	.1	.1	.0	.1	1.8	
	NO PCP	.6	.2	.2	1.0	4.0	7.0	4.3	1.7	.0	1.8	20.8	
	TOT %	.7	.3	.7	1.2	4.4	7.3	4.4	1.8	.0	1.9	22.6	
10+	PCP	.0	.0	.0	.0	.3	.3	.1	.1	.0	.0	.7	
	NO PCP	.5	.5	.9	5.6	26.1	24.8	5.9	1.4	.0	4.1	69.8	
	TOT %	.5	.5	.9	5.6	26.3	25.1	6.0	1.5	.0	4.1	70.5	
TOT OBS		1.6	1.6	1.8	7.3	32.3	33.5	11.3	4.0	.0	6.5	100.0	1126
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.2	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.0	.1	.0	.1	.0	.1	.4	
1/2<1	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	*	.2	*	.2	.4	.3	.1	.1	.0	.0	1.4	
	11-21	.0	.1	.0	.0	*	.1	*	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	*	.2	.5	.4	.2	.2	.0	.0	1.9	
1<2	0-3	.0	.0	.0	.0	.1	.0	*	.2	.0	.3	.6	
	4-10	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.1	.2	.2	.1	.2	.0	.3	1.0	
2<5	0-3	.0	*	*	.0	.3	*	.0	.1	.0	.1	.6	
	4-10	.3	.1	.0	.1	.4	.3	.4	.1	.0	.0	1.8	
	11-21	.0	.0	.0	.0	.1	.2	.1	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	*	.1	.8	.5	.6	.2	.0	.1	2.9	
5<10	0-3	*	.0	*	.4	.8	.6	.4	.2	.0	1.5	3.9	
	4-10	.5	.1	.4	.5	2.7	5.4	3.0	1.3	.0	.0	13.9	
	11-21	.1	.1	.1	.2	.4	.6	1.3	.4	.0	.0	3.1	
	22+	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.6	.2	.7	1.1	3.8	6.6	4.7	1.8	.0	1.5	21.0	
10+	0-3	.1	.1	.3	.6	3.0	2.7	.9	.4	.0	3.4	11.4	
	4-10	.5	.3	.6	3.3	17.1	20.6	7.1	1.8	.0	.0	51.4	
	11-21	.2	.1	.1	.8	3.6	3.7	.9	.6	.0	.0	9.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.8	.4	1.0	4.7	23.7	27.0	9.0	2.8	.0	3.4	72.8	
TOT OBS		1.9	1.2	1.8	6.3	29.0	34.7	14.5	5.2	.0	5.3	100.0	1599
TOT PCT													

FEBRUARY

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1860-1976AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.4	.0	.9	3.1	8.8	5.7	2.2	1.8	.4	1.8	25.1	74.9	227
06009	.4	.0	3.0	4.7	9.9	7.8	3.9	1.3	.4	2.2	33.6	66.4	232
12015	.4	.0	1.2	4.8	11.9	10.3	2.8	1.6	2.8	2.0	37.7	62.3	252
18021	.0	.9	1.3	2.6	13.2	6.1	2.6	.9	.0	1.8	29.4	70.6	228
TOT	3	2	15	36	103	71	27	13	9	18	297	642	939
PCT	.3	.2	1.6	3.8	11.0	7.6	2.9	1.4	1.0	1.9	31.6	68.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	1.4	.7	2.7	19.4	75.9	444
06009	1.7	2.2	.8	4.2	22.0	69.1	359
12015	.2	3.4	1.7	2.7	20.2	71.8	476
18021	.0	1.1	.5	1.6	23.9	72.9	373
TOT	7	34	16	46	350	1199	1652
PCT	.4	2.1	1.0	2.8	21.2	72.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	.5	1.4	7.2	21.5	71.3	209
06009	.4	3.6	12.1	23.3	64.6	223
12015	.4	1.7	9.9	30.2	59.9	242
18021	.0	2.3	6.0	25.6	68.4	215
TOT	3	20	79	225	585	889
PCT	.3	2.2	8.9	25.3	65.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	.1	.2	.0	.0	3	.3
85/89	.0	.0	.0	.0	.6	6.9	3.3	.4	101	11.2
80/84	.0	.0	.0	.2	1.4	26.8	45.7	5.7	717	79.8
75/79	.0	.0	.0	.1	.0	1.1	4.6	2.6	75	8.4
70/74	.0	.0	.0	.0	.1	.3	.0	.1	2	.2
TOTAL	0	0	3	20	315	481	79		898	100.0
PCT	.0	.0	.0	.3	2.2	35.1	53.6	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.2	.1	*	.0	.0	.0
85/89	.0	.3	.0	.5	3.1	5.0	.9	.2	.0
80/84	.9	.3	.8	5.3	28.7	29.3	8.2	1.3	.0
75/79	.3	.5	.8	1.1	2.2	1.1	.7	.9	.0
70/74	.0	.0	.0	.1	.0	.0	.0	.1	.0
TOTAL	1.2	1.1	1.6	7.2	34.1	35.4	9.8	2.4	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	87	84	84	82	79	76	75	81.5	790
06009	93	86	84	82	77	74	72	81.5	514
12015	93	90	87	84	79	75	73	83.5	760
18021	90	86	85	82	79	75	73	82.2	539
TOT	93	88	86	82	78	75	72	82.2	2603

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.4	21.7	67.5	10.4	83	240
06009	.0	.0	.9	25.4	58.9	14.7	83	224
12015	.0	.8	3.9	50.6	40.5	4.3	79	257
18021	.0	.5	3.7	41.3	47.2	7.3	81	218
TOT	0	3	21	329	501	85	81	939

FEBRUARY

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1850-1976AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.0	.2	2	.0	.2
6	.0	.0	.1	.2	.1	4	.0	.4
5	.0	.1	.0	.5	.2	8	.0	.7
4	.0	.2	.7	1.0	.0	21	.0	1.9
3	.0	.1	.5	1.4	.1	22	.0	2.0
2	.1	.1	2.8	2.6	.0	61	.0	5.6
1	.0	.2	7.7	1.8	.0	106	.1	9.6
0	.1	.8	16.1	1.7	.0	205	.5	18.3
-1	.0	1.7	23.3	.5	.0	278	.4	25.1
-2	.0	2.4	11.7	.2	.0	156	.0	14.3
-3	.0	2.6	4.5	.3	.0	80	.2	7.2
-4	.0	2.3	3.2	.0	.0	60	.3	5.2
-5	.2	2.1	2.0	.0	.0	47	.3	4.0
-6	.5	1.1	.6	.0	.0	23	.1	2.0
-7/-8	.3	.6	.1	.0	.0	11	.0	1.0
-9/-10	.3	.1	.0	.0	.0	4	.0	.4
-11/-13	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	17		800		6		19	1071
PCT	1.6	157	73.4	110	.6	1090	1.7	98.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.1	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.5	.0	.0	.0	.0	.5	.0	.3	.2	.0	.0	.0	.5
3-4	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.1	.2	.0	.0	1.0	.0	.5	.5	.0	.0	.0	.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	.3	.5	.9	.3	.0	.0	.0	1.7
1-2	.0	.1	.2	.0	.0	.0	.3	.3	2.3	.3	.0	.0	.0	2.9
3-4	.0	.3	.3	.0	.0	.0	.5	.0	.7	.9	.0	.0	.0	1.5
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.5	.0	.0	.0	1.2	.8	3.8	2.0	.0	.0	.0	6.6

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0013 GULF OF GUINEA EAST
1.0N 6.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.3	5.7	.1	.0	.0	.0	7.1	1.9	5.7	.2	.0	.0	.0	.0	7.8
1-2	1.0	14.9	4.2	.0	.0	.0	20.1	1.4	17.9	3.4	.0	.0	.0	.0	22.7
3-4	.0	3.7	2.1	.0	.0	.0	5.8	.0	2.4	1.8	.0	.0	.0	.0	4.2
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.6	.6	.0	.0	.0	.0	1.2
7	.0	.0	.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	24.4	7.7	.0	.0	.0	34.3	3.3	26.9	6.0	.0	.0	.0	36.3	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.4	2.3	.1	.0	.0	.0	2.8	.5	.3	.0	.0	.0	.0	.0	.8
1-2	.3	3.5	.5	.0	.0	.0	4.2	.2	.5	.5	.0	.0	.0	.0	1.1
3-4	.2	1.7	.5	.0	.0	.0	2.4	.0	.3	.0	.0	.0	.0	.0	.3
5-6	.0	.5	.6	.2	.0	.0	1.2	.0	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.9	1.7	.2	.0	.0	10.5	.6	1.2	.9	.0	.0	.0	2.7	93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.1	15.8	.9	.0	.0	.0	27.7	
1-2	3.8	39.4	9.0	.0	.0	.0	52.2	
3-4	.3	8.8	5.6	.1	.0	.0	14.9	
5-6	.0	1.0	2.9	.1	.0	.0	4.1	
7	.0	.1	.4	.0	.0	.0	.6	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.1	.0	.0	.0	.0	.1	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	65.5	19.0	.3	.0	.0	100.0	678

PERIOD: (OVER-ALL) 1950-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.5	22.7	13.5	3.9	.4	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	388
6-7	.0	2.8	5.1	1.4	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88
8-9	.0	1.4	3.7	2.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
10-11	.0	4.1	2.2	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64
12-13	.0	.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	10.0	9.6	5.1	.4	.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216
TOTAL	130	339	255	78	19	11	2	2	0	0	0	0	0	0	0	0	0	0	0	0	836
PCT	15.6	40.6	30.5	9.3	2.3	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1872-1976

MARCH

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	25.0	11.7	.0	.0	.0	.0	.0	36.7	6.7	11.7	.0	.0	.0	.0	50.0
NE	9.9	14.1	.0	.0	.0	.0	.0	23.9	18.3	1.4	.0	.0	.0	.0	57.7
E	12.0	2.6	.0	.0	.0	.0	.0	14.5	2.6	9.4	.0	.0	.0	.0	76.9
SE	7.6	.3	.3	.0	.0	.0	.0	8.2	2.6	12.5	.0	.0	.0	.0	80.8
S	1.6	.9	.2	.0	.0	.0	.0	2.6	2.1	5.8	.2	.0	.0	.0	89.6
SW	1.9	2.2	.0	.0	.0	.0	.0	4.0	1.5	7.7	.0	.0	.5	.0	86.8
W	2.2	2.8	.0	.0	.0	.0	.0	5.0	1.7	6.9	.0	.0	1.1	.0	85.3
NW	11.4	5.7	2.9	.0	.0	.0	.0	20.0	8.6	6.4	.0	.0	2.9	.0	62.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	2.2	.0	.0	.0	.0	.0	4.4	2.2	6.7	.0	.0	.0	.0	86.7
TOT PCT	3.2	2.0	.2	.0	.0	.0	.0	5.3	2.4	7.2	.1	.0	.3	.0	85.4
TOT OBS:	1160														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	2.0	1.7	.0	.0	.0	.0	.0	3.7	1.4	18.6	.0	.0	.0	.0	77.0
06009	4.7	1.8	.4	.0	.0	.0	.0	6.9	2.6	5.5	.0	.0	.7	.0	85.0
12015	2.4	3.0	.3	.0	.0	.0	.0	5.7	2.1	1.5	.3	.0	.3	.0	90.8
18021	3.7	1.3	.3	.0	.0	.0	.0	5.3	3.3	4.0	.0	.0	.3	.0	88.0
TOT PCT	3.2	2.0	.2	.0	.0	.0	.0	5.4	2.3	7.2	.1	.0	.3	.0	85.4
TOT OBS:	1206														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.8	.3	.0	*	.0		1.4	8.5	1.0	2.3	2.3	.9	1.7	1.1	.6	1.6	
NE	.2	1.1	.2	*	*	.0		1.5	8.0	1.3	1.3	2.2	1.9	1.8	.8	1.5	1.5	
E	.5	1.5	.3	.1	.0	.0		2.3	7.0	2.6	2.0	2.3	3.0	3.8	1.1	1.5	.5	
SE	1.0	5.2	.8	.1	.0	.0		7.1	7.0	6.3	6.7	6.5	6.7	8.6	8.6	5.8	7.2	
S	2.3	22.9	5.4	.1	.0	.0		30.7	7.9	28.9	25.5	34.5	28.8	30.8	28.3	34.2	36.3	
SW	2.6	27.4	7.3	.2	.0	.0		37.5	8.2	37.4	39.1	39.1	40.0	35.9	38.6	38.1	37.4	
W	1.3	10.1	1.5	.1	.0	.0		12.9	7.1	13.4	16.3	9.4	14.3	11.1	16.0	12.4	11.6	
NW	.6	2.7	.2	.0	.0	.0		3.5	6.8	5.2	4.2	4.1	2.8	2.1	3.1	2.9	2.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	4.0	2.6	3.6	1.7	4.2	2.3	3.1	1.2	
TOT OBS	343	2100	473	16	1	0	2933		7.5	553	344	333	235	547	306	359	256	
TOT PCT	11.7	71.6	16.1	.5	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.6	.7	.1	*	.0		1.4	8.5	1.5	1.7	1.5	1.0	
NE	.8	.6	*	.1	.0		1.5	8.0	1.3	2.1	1.5	1.5	
E	1.5	.6	.1	.1	.0		2.3	7.0	2.3	2.6	2.9	1.1	
SE	3.9	3.0	.2	.0	.0		7.1	7.0	6.4	6.6	8.6	6.4	
S	12.9	17.0	.8	.0	.0		30.7	7.9	27.6	32.2	29.9	35.1	
SW	14.1	22.4	1.0	.0	.0		37.5	8.2	38.0	37.1	36.9	37.8	
W	6.9	5.9	.2	.0	.0		12.9	7.1	14.5	11.4	12.8	12.1	
NW	1.8	1.6	.1	.0	.0		3.5	6.8	4.8	3.6	2.4	2.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.1						3.1	.0	3.5	2.8	3.5	2.3	
TOT OBS	1340	1519	70	4	0	2933		7.5	897	568	853	615	
TOT PCT	45.7	51.8	2.4	.1	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1872-1976

MARCH

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.5	8.6	73.0	14.2	.8	.0	.0	.0	7.5	897
0600Z	2.8	10.0	69.7	17.4	.0	.0	.0	.0	7.5	568
1200Z	3.5	8.3	71.7	15.7	.7	.0	.0	.0	7.5	853
1800Z	2.3	7.6	71.1	18.4	.5	.2	.0	.0	7.8	615
TOT	91	252	2100	473	16	1	0	7.5		2933
PCT	3.1	8.6	71.6	16.1	.5	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION						
WIND DIR	0-2	3-4	5-7	8 & OBS'D	TOTAL OBS	MEAN CLOUD COVER
N	.0	.4	.1	.9		6.5
NE	*	.2	.7	.6		6.6
E	.2	.6	1.0	.8		5.8
SE	.9	2.6	2.6	1.2		4.8
S	6.4	9.8	17.2	7.7		5.0
SW	5.4	7.3	14.3	5.4		5.0
W	.8	1.4	3.1	1.8		5.6
NW	.6	.2	1.0	1.0		5.5
VAR	.0	.0	.0	.0		.0
CALM	.7	.7	1.6	.8		5.1
TOT OBS	148	228	408	200	984	5.1
TOT PCT	15.0	23.2	41.5	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION													
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS	
	149	299	599	999	1999	3499	4999	6499	7999				
N	.1	.0	.0	.1	.3	.2	.0	.0	.0	.0	.7		
NE	*	.0	.0	.1	.3	.2	.1	.2	.0	.0	.6		
E	.0	.0	.2	.2	.5	.3	.0	.1	.0	.0	1.4		
SE	.0	.0	.0	.4	.6	1.0	.3	.0	.0	.0	5.0		
S	.0	.0	.1	2.1	4.2	2.6	1.5	.2	.1	.5	29.7		
SW	.0	.0	.9	3.3	2.2	1.2	.7	.1	.8	23.1			
W	.0	.0	.3	1.4	1.0	.4	.3	.1	.2	3.6			
NW	.0	.0	.1	.4	.2	.4	.3	.0	.0	.1	1.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.1	.0	.1	.3	.4	.5	.0	.0	.1	.0	2.3		
TOT OBS	2	0	5	46	111	83	37	14	4	15	667	984	
TOT PCT	.2	.0	.5	4.7	11.3	8.4	3.8	1.4	.4	1.5	67.8	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
= OR >2000	13.0	15.0	15.2	15.3	15.4	15.4	15.4	15.4
= OR >1000	22.4	26.2	26.7	26.8	26.9	26.9	26.9	26.9
= OR >600	26.0	30.7	31.3	31.4	31.5	31.5	31.5	31.5
= OR >300	26.2	31.1	31.8	31.8	31.9	31.9	31.9	31.9
= OR >150	26.2	31.1	31.8	31.8	31.9	31.9	31.9	31.9
= OR >0	26.2	31.2	31.9	32.0	32.1	32.1	32.1	32.1
TOTAL	265	315	323	324	325	325	325	325

TOTAL NUMBER OF OBS: 1011

PCT FREQ NH <5/8: 67.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS'D	TOTAL OBS
6.3	10.1	21.2	15.1	14.3	8.5	8.6	5.5	10.1	.2	1067

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1872-1976

MARCH

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
2<5	PCP	.0	.0	.1	.1	.0	.1	.1	.1	.0	.1	.5	
	NO PCP	.0	.1	.0	.0	.1	.2	.2	.1	.0	.0	.6	
	TOT %	.0	.1	.1	.1	.1	.3	.2	.2	.0	.1	1.1	
5<10	PCP	.3	.2	.3	.3	.3	.6	.1	.3	.0	.0	2.3	
	NO PCP	.1	.2	.1	1.1	2.9	3.7	1.0	.4	.0	.7	10.0	
	TOT %	.3	.3	.4	1.4	3.1	4.3	1.1	.7	.0	.7	12.4	
10+	PCP	.2	.1	.0	.2	.8	.6	.2	.2	.0	.1	2.3	
	NO PCP	.8	1.0	2.0	5.7	36.1	27.1	6.2	2.0	.0	3.0	83.8	
	TOT %	1.0	1.0	2.0	5.9	36.9	27.7	6.4	2.1	.0	3.1	86.2	
TOT OBS													1157
TOT PCT		1.3	1.5	2.5	7.4	40.1	32.4	7.8	3.0	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.3	
2<5	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.2	
	4-10	.0	.1	.0	.1	.2	.2	.1	.1	.0	.0	.9	
	11-21	.0	.0	.1	.0	.0	.3	.0	.0	.0	.0	.4	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.3	.6	.2	.1	.0	.1	1.6	
5<10	0-3	.0	.0	.0	.0	.2	.2	.1	.1	.0	.5	1.3	
	4-10	.1	.0	.2	.6	1.9	3.3	.8	.4	.0	.0	7.3	
	11-21	.2	.1	.3	.8	1.6	.4	.1	.0	.0	.0	3.7	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.2	.3	1.1	3.0	5.1	1.4	.5	.0	.5	12.3	
10+	0-3	.2	.1	.4	.4	2.5	2.5	.9	.3	.0	2.5	9.9	
	4-10	.4	.8	1.3	4.0	23.4	23.4	7.5	1.8	.0	.0	62.6	
	11-21	.2	.2	.6	.6	4.5	5.5	1.3	.2	.0	.0	12.6	
	22+	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	TOT %	.9	1.0	1.9	5.0	30.4	31.5	9.8	2.3	.0	2.5	85.4	
TOT OBS													1832
TOT PCT		1.2	1.4	2.4	6.2	33.9	37.4	11.4	3.0	.0	3.2	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1872-1976

MARCH

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.4	.0	.0	5.6	9.5	6.5	1.7	.9	.4	2.6	27.7	72.3	231
06609	.0	.0	1.6	4.7	14.6	10.6	3.9	.4	.4	1.2	37.4	62.6	254
12615	.0	.0	.0	3.8	11.8	6.6	4.9	3.8	.3	1.0	32.3	67.7	288
18621	.4	.0	.4	3.7	8.9	8.9	4.1	.0	.4	1.1	27.9	72.1	269
TOT	2	0	5	46	117	85	39	14	4	15	327	715	1042
PCT	.2	.0	.5	4.4	11.2	8.2	3.7	1.3	.4	1.4	31.4	68.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.6	.2	2.5	14.6	82.1	521
06609	.0	.3	.5	1.5	12.5	85.2	392
12615	.4	.2	.6	.8	11.8	86.3	533
18621	.0	.0	.0	1.6	11.6	86.8	432
TOT	2	5	6	30	238	1597	1878
PCT	.1	.3	.3	1.6	12.7	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	.5	.5	6.9	22.1	71.0	217
06609	.0	1.6	7.6	31.2	61.2	250
12615	.0	.4	5.3	27.7	67.0	285
18621	.4	.8	5.8	23.2	71.0	259
TOT	2	8	64	265	682	1011
PCT	.2	.8	6.3	26.2	67.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.2	.1	.0	4	.4
85/89	.0	.0	.0	.2	1.3	6.8	.9	.6	88	9.8
80/84	.0	.0	.0	.1	1.9	31.8	45.9	3.4	742	83.0
75/79	.0	.0	.0	.0	.0	1.0	3.2	2.3	59	6.6
70/74	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	0	3	30	356	449	56	894	100.0
PCT	.0	.0	.0	.3	3.4	39.8	50.2	6.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0
85/89	.1	.0	.2	1.2	3.8	3.4	.8	.0	.0	.2
80/84	.7	1.2	1.1	5.8	37.2	25.7	5.9	2.5	.0	2.9
75/79	.8	.4	.4	.8	1.8	.9	.6	.5	.0	.4
70/74	.0	*	.1	.0	.0	.0	.0	.0	.0	.0
TOTAL	1.6	1.7	1.8	7.8	43.2	30.1	7.3	2.9	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	89	85	84	82	78	75	72	81.5	910
06609	90	86	84	82	78	75	72	81.7	573
12615	93	91	89	84	79	76	73	83.8	866
18621	91	88	85	82	79	75	74	82.3	620
TOT	93	90	86	82	78	75	72	82.4	2969

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	.8	31.7	60.8	6.7	82	240
06609	.0	.0	1.4	36.4	52.3	9.8	82	214
12615	.0	.4	8.5	52.3	35.3	3.4	78	235
18621	.0	.8	3.0	39.2	51.1	5.9	80	237
TOT	0	3	32	370	462	59	80	926

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1872-1976

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1.8N 6.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FUG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.0	.0	.3	.0	3	.0	.3
6	.0	.0	.1	.0	.1	.5	.0	8	.0	.7
5	.0	.0	.0	.0	.5	1.1	.0	17	.0	1.5
4	.0	.0	.1	.5	.5	.8	.0	21	.0	1.9
3	.0	.0	.0	.5	1.0	.0	.0	16	.0	1.4
2	.0	.0	.1	1.7	1.9	.1	.0	42	.0	3.8
1	.0	.0	.2	3.3	2.3	.1	.0	65	.0	5.9
0	.0	.0	.6	14.5	1.8	.1	.0	188	.1	16.9
-1	.0	.0	.7	20.0	1.6	.0	.0	247	.0	22.4
-2	.0	.0	1.7	16.2	.5	.0	.0	203	.0	18.4
-3	.0	.0	3.2	6.2	.3	.0	.0	106	.0	9.6
-4	.0	.0	1.7	3.9	.1	.0	.0	63	.0	5.7
-5	.0	.2	1.5	4.3	.0	.0	.0	67	.0	6.1
-6	.0	.3	1.4	.8	.0	.0	.0	27	.0	2.4
-7/-8	.0	.7	1.2	.4	.0	.0	.0	25	.0	2.3
-9/-10	.0	.2	.1	.1	.0	.0	.0	4	.0	.4
-11/-13	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	139	799	116	33	1	1105	100.0	.1	99.9
PCT	.1	1.4	12.6	72.3	10.5	3.0	.1			

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.1	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.4	.3	.0	.0	.0	.7	.0	.8	.2	.0	.0	.0	1.0
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.6	.6	.0	.1	.0	1.7	.0	1.0	.2	.2	.0	.0	1.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.1	.0	.0	.0	.8	.2	.7	.0	.0	.0	.0	.9
1-2	.2	.8	.2	.0	.0	.0	1.2	.1	3.8	.7	.0	.0	.0	4.6
3-4	.0	.1	.2	.0	.0	.0	.3	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.4	.5	.1	.0	.0	2.4	.2	5.2	1.2	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	5.6	.0	.0	.0	.0	6.6	2.1	5.4	.0	.0	.0	.0	7.6
1-2	1.0	22.6	4.0	.0	.0	.0	27.6	.9	14.7	4.0	.0	.0	.0	19.6
3-4	.2	2.6	2.7	.1	.0	.0	5.7	.0	2.8	2.4	.1	.0	.0	5.3
5-6	.0	.2	.6	.0	.0	.0	.8	.0	.8	.4	.0	.0	.0	.5
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	31.1	7.4	.1	.0	.0	40.8	3.1	23.1	6.9	.1	.0	.0	33.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	1.0	.0	.0	.0	.0	1.6	.2	.2	.0	.0	.0	.0	.4	
1-2	.4	3.4	.7	.0	.0	.0	4.6	.0	1.5	.2	.0	.0	.0	1.7	
3-4	.0	1.1	.1	.0	.0	.0	1.1	.2	.2	.0	.0	.0	.0	.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	5.5	.8	.0	.0	.0	7.3	.4	2.0	.4	.0	.0	.0	2.9	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.1	13.8	.1	.0	.0	.0	23.0	
1-2	2.8	47.4	10.2	.0	.0	.0	60.3	
3-4	.6	7.5	5.9	.2	.0	.0	14.3	
5-6	.0	.2	1.3	.1	.1	.0	1.8	
7	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.5	69.3	17.7	.5	.1	.0	100.0	827

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.9	21.3	10.0	2.6	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	370	2
6-7	.0	4.0	5.6	3.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	3
8-9	.1	1.1	5.9	3.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	4
10-11	.0	1.8	1.6	.2	.4	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	4
12-13	.0	.0	1.1	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
>13	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	6.7	11.8	9.1	1.9	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	289	2
TOTAL	104	386	321	114	20	12	3	1	0	2	0	0	0	0	0	0	0	0	0	0	963	3
PCT	10.8	40.1	33.3	11.8	2.1	1.2	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0013 GULF OF GUINEA EAST
1.8N 5.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	21.0	7.4	.0	.0	.0	.0	.0	28.4	3.7	2.5	.0	.0	.0	.0	67.9
NE	17.3	7.3	.6	.0	.0	.0	.0	25.1	.6	6.1	.0	.0	.0	.0	71.5
E	11.6	6.9	1.4	.0	.0	.0	.0	19.9	2.8	7.9	.0	.0	.0	.0	73.1
SE	4.0	2.0	1.8	.0	.0	.0	.0	7.8	4.3	8.1	2.1	.0	.0	.0	78.4
S	1.9	2.4	.8	.0	.0	.0	.0	5.1	5.0	7.1	.3	.0	.0	.0	82.5
SW	2.8	.4	.9	.0	.0	.0	.0	4.1	2.6	8.8	.1	.0	.1	.0	85.1
W	1.8	.9	.5	.0	.0	.0	.0	3.2	4.2	4.9	.0	.0	.4	.0	88.1
NW	8.1	4.4	.0	.0	.0	.0	.0	12.5	6.6	8.8	.0	.0	.0	.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	1.3	.0	.0	.0	.0	.0	3.8	3.8	.0	2.5	.0	1.3	.0	88.6
TOT PCT	3.7	2.0	.9	.0	.0	.0	.0	6.6	3.9	6.9	.5	.0	.1	.0	82.7
TOT OBS:	1386														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	2.8	1.4	.6	.0	.0	.0	.0	4.8	3.1	15.5	.8	.0	.3	.0	.0	76.3
06009	4.6	2.0	1.2	.0	.0	.0	.0	7.8	4.3	6.6	.9	.0	.0	.0	.0	81.8
12015	4.1	1.7	1.0	.0	.0	.0	.0	6.7	3.1	1.4	.2	.0	.2	.0	.0	88.4
18021	3.2	3.2	.6	.0	.0	.0	.0	7.1	4.4	7.4	.6	.0	.3	.0	.0	81.1
TOT PCT	3.7	2.1	.8	.0	.0	.0	.0	6.6	3.7	7.5	.6	.0	.2	.0	.0	82.2
TOT OBS:	1454															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.4	1.0	.2	*	.0	.0	1.7	6.5	1.5	1.6	1.0	3.3	1.9	1.8	1.0	1.1			
NE	.6	1.6	.6	.2	.0	.0	3.0	8.0	2.5	3.3	4.4	5.2	3.5	1.9	1.8	1.1			
E	.6	2.6	.4	.1	.0	.0	3.7	7.2	2.8	2.6	3.5	5.0	6.6	3.4	2.6	1.5			
SE	1.3	7.8	1.7	.2	.0	.0	10.9	7.7	10.7	12.3	11.8	8.3	10.7	11.1	10.6	11.9			
S	2.2	21.5	5.1	.2	.0	.0	28.9	8.0	27.6	28.3	32.8	28.9	29.3	27.6	28.4	28.6			
SW	2.7	20.8	5.6	.1	.0	.0	29.1	7.8	29.9	30.2	25.5	27.8	25.2	32.9	31.3	33.5			
W	1.4	10.7	2.3	.1	.0	.0	14.5	7.7	15.5	16.0	10.8	16.4	13.7	12.9	14.2	16.7			
NW	.5	2.4	.3	*	.0	.0	3.2	7.5	3.1	2.8	2.5	3.0	3.1	3.8	4.1	2.9			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	5.1						5.1	.0	6.3	2.9	7.7	2.0	6.0	4.6	5.9	2.6			
TOT OBS	413	1911	454	23	1	0	2802		7.4	525	307	310	247	565	280	339	229		
TOT PCT	14.7	68.2	16.2	.8	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.1	.5	.1	.0	.0		1.7	6.5	1.6	2.1	1.9	1.0
NE	1.5	1.2	.2	.0	.0		3.0	8.0	2.8	4.7	2.9	1.5
E	2.3	1.2	.2	.0	.0		3.7	7.2	2.7	4.1	5.5	2.2
SE	5.1	5.5	.2	.1	.0		10.9	7.7	11.3	10.2	10.8	11.1
S	12.1	16.0	.8	.0	.0		28.9	8.0	27.9	31.1	28.7	28.5
SW	13.0	15.3	.8	.0	.0		29.1	7.8	30.0	26.5	27.8	32.2
W	6.4	7.7	.4	.0	.0		14.5	7.7	15.7	13.3	13.5	15.2
NW	1.5	1.6	.0	.1	.0		3.2	7.5	3.0	2.7	3.3	3.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	5.0	5.2	5.6	4.6
TOT OBS	1352	1369	76	5	0	2802		7.4	832	557	845	568
TOT PCT	48.3	48.9	2.7	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0013 GULF OF GUINEA EAST
1.8N 5.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	5.0	8.8	70.0	15.3	1.0	.0	.0	7.4	100.0	832
0600	5.2	11.8	65.2	16.3	1.4	.0	.0	7.2	100.0	557
1200	5.0	10.7	68.6	14.4	.6	.1	.0	7.2	100.0	845
1800	4.6	7.0	68.0	20.1	.4	.0	.0	7.8	100.0	568
TOT	144	269	1911	454	23	1	0	7.4		2802
PCT	5.1	9.6	68.2	16.2	.8	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD COVER
N	.1	.0	.5	.4	6.5
NE	.1	.6	1.3	.7	5.7
E	.3	.4	1.2	1.9	6.2
SE	1.6	2.1	4.3	3.3	5.4
S	4.4	9.1	14.1	6.9	5.1
SW	4.0	5.3	11.1	5.2	5.2
W	1.4	3.2	5.1	3.1	5.4
NW	.3	.4	1.0	.5	5.5
VAR	.0	.0	.0	.0	.0
CALM	1.3	1.3	2.6	.7	4.6
TOT OBS	145	241	441	245	1072
TOT PCT	13.5	22.5	41.1	22.9	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.1	.1	.3	.1	.1	.0	.0	.3	
NE	.0	.2	.4	.4	.2	.0	.1	.0	.0	.0	1.4	
E	.1	.0	.2	.3	.3	.2	.1	.1	.0	.1	2.5	
SE	.0	.0	.1	.8	1.8	1.6	.5	.1	.0	.0	6.3	
S	.1	.2	1.6	4.0	3.5	1.1	.1	.0	.3	23.6		
SW	.0	.0	*	1.7	3.4	1.9	1.1	.7	*	16.4		
W	.1	.0	.1	.5	1.4	1.7	.1	1.0	.1	7.7		
NW	.0	.0	.0	.2	.6	.0	.0	.0	.0	1.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.2	.3	.4	.8	.3	.1	.1	3.7		
TOT OBS	4	0	11	64	130	116	35	25	2	9	676	1072
TOT PCT	.4	.0	1.0	6.0	12.1	10.8	3.3	2.3	.2	.8	63.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>3500	6.1	6.4	6.6	6.6	6.6	6.6	6.6	6.6
>2000	14.8	16.8	17.1	17.3	17.3	17.3	17.3	17.3
>1000	25.0	28.5	29.0	29.3	29.3	29.3	29.3	29.3
>600	29.1	34.1	34.7	35.2	35.3	35.3	35.3	35.3
>300	29.5	34.9	35.8	36.3	36.5	36.5	36.5	36.5
>150	29.6	35.0	35.9	36.4	36.6	36.6	36.6	36.6
>0	29.8	35.2	36.2	36.8	37.0	37.0	37.0	37.0
TOTAL	332	392	404	410	412	412	412	412

TOTAL NUMBER OF OBS: 1115

PCT FREQ NH <5/8: 63.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	4.9	9.9	18.0	16.8	13.1	8.9	9.4	6.2	12.7	.3	1153

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0013 GULF OF GUINEA EAST
1.8N 5.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.2	.1	*	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.1	.2	.1	*	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.1	.0	*	.1	.1	.0	.0	.2	
	NO PCP	.0	.1	.1	*	.1	.1	.0	.0	.0	.0	.4	
	TOT %	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.6	
2<5	PCP	.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.1	.2	.2	.2	.0	.0	.0	.1	.7	
	TOT %	.1	.1	.3	.2	.3	.2	.0	.0	.0	.1	1.3	
5<10	PCP	.2	.5	.4	.4	.9	.5	.1	.1	.0	.2	3.4	
	NO PCP	.4	.8	.8	2.2	3.5	4.2	2.7	.4	.0	.5	15.5	
	TOT %	.7	1.3	1.2	2.6	4.4	4.7	2.9	.5	.0	.7	18.9	
10+	PCP	.1	.1	.4	.4	.6	.5	.3	.1	.0	.0	2.2	
	NO PCP	.6	1.6	2.2	8.4	26.5	20.5	10.2	1.8	.0	4.8	76.6	
	TOT %	.7	1.6	2.3	8.7	27.1	21.0	10.5	1.9	.0	4.8	78.7	
TOT OBS													1383
TOT PCT		1.5	3.2	3.9	11.8	32.0	26.0	13.4	2.5	.0	5.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	11-21	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	*	.1	.1	.1	.1	*	.0	*	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.1	.2	*	.0	.0	.0	.3	
	22+	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.2	.2	*	.1	.0	.1	.8	
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.4	
	4-10	.0	.1	*	.1	.1	.3	.1	.0	.0	.0	.7	
	11-21	.1	.1	.1	.1	.1	.2	.1	*	.0	.0	.9	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.2	.2	.2	.7	.1	*	.0	.2	2.1	
5<10	0-3	.1	.2	.1	.1	.2	.3	.3	.2	.0	.8	2.2	
	4-10	.4	.4	.7	1.4	3.3	3.4	1.6	.3	.0	.0	11.5	
	11-21	.1	.6	.2	.6	.7	1.2	.7	.0	.0	.0	4.2	
	22+	*	*	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.6	1.2	1.0	2.2	4.3	4.9	2.6	.5	.0	.8	18.0	
10+	0-3	.3	.6	.5	1.2	2.2	2.1	1.2	.3	.0	4.5	12.8	
	4-10	.6	1.1	1.8	6.5	19.6	16.6	7.6	1.7	.0	.0	55.5	
	11-21	.1	.1	.1	1.3	3.6	3.2	1.6	.2	.0	.0	10.3	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	1.0	1.7	2.4	9.1	25.5	21.9	10.4	2.3	.0	4.5	78.7	
TOT OBS													1853
TOT PCT		1.7	3.4	3.8	11.7	30.3	27.7	13.1	2.9	.0	5.5	100.0	

APRIL

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976AREA 0013 GULF OF GUINEA EAST
1.8N 5.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.4	.0	.8	3.9	11.8	8.2	3.1	1.2	.0	1.2	30.6	69.4	255
06009	.3	.3	1.4	7.3	13.5	9.7	2.8	.0	.3	1.7	37.5	62.5	288
12015	.3	.0	1.3	5.7	11.0	10.7	3.8	6.9	.0	.3	39.9	60.1	318
18021	.4	.0	1.1	6.9	11.3	13.1	2.9	.4	.4	.4	36.7	63.3	275
TOT	.4	.1	1.3	6.8	13.5	11.9	3.6	7.6	.2	1.0	41.4	72.2	1136
PCT	.4	.1	1.1	6.0	11.9	10.5	3.2	2.3	.2	.9	36.4	63.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.8	.8	1.8	16.7	80.0	509
06009	.5	.7	1.4	1.9	16.3	79.3	430
12015	.0	.2	.5	1.8	20.2	77.3	555
18021	.0	.0	.5	3.0	17.5	79.0	428
TOT	.2	.8	1.5	4.0	34.2	151.5	1922
PCT	.1	.4	.8	2.1	17.8	78.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.4	1.2	6.5	26.0	67.5	246
06009	.4	2.8	10.6	27.5	62.0	284
12015	.3	1.6	8.6	31.7	59.7	315
18021	.4	1.5	9.3	28.1	62.6	270
TOT	.4	2.0	9.8	31.8	69.9	1115
PCT	.4	1.8	8.8	28.5	62.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
85/89	.0	.0	.0	.0	.9	8.8	2.7	.1	125	12.5
80/84	.0	.0	.0	.0	1.0	29.5	42.4	5.7	789	78.6
75/79	.0	.0	.0	.0	.1	.6	3.2	4.9	88	8.8
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	.0	.0	.0	.0	2.0	39.0	48.6	10.8	1004	100.0
PCT	.0	.0	.0	.0	2.0	38.8	48.4	10.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.1	.1	.2	1.3	4.9	3.9	1.1	.1	.0	.7
.7	2.1	2.4	9.0	29.1	21.1	9.9	1.4	.0	2.9
.4	1.0	1.4	1.3	2.3	1.0	.7	.4	.0	.4
*	.0	.0	.0	.0	.0	.0	*	.0	.0
1.2	3.1	4.0	11.6	36.4	25.9	11.7	1.9	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	88	85	84	82	78	72	66	81.3	847
06009	89	86	85	82	77	72	68	81.5	573
12015	95	91	89	84	78	74	68	83.5	852
18021	90	87	85	82	78	73	70	82.0	575
TOT	95	89	86	82	78	73	66	82.1	2847

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.4	27.5	62.6	9.5	82	273
06009	.0	.0	.7	32.0	53.2	14.1	83	269
12015	.0	.0	5.8	52.7	31.6	9.8	79	275
18021	.0	.0	1.3	43.6	44.9	10.2	81	236
TOT	0	0	22	409	507	115	81	1053

APRIL

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1869-1976

TABLE 17

AREA 0013 GULF OF GUINEA EAST
1.8N 5.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WU FOG
7/8	.0	.0	.0	.0	.2	.0	.0	.0	2	.0	.2
6	.0	.0	.0	.0	.0	.2	.1	.0	3	.0	.2
5	.0	.0	.0	.0	.2	.1	.5	.2	12	.0	.9
4	.0	.0	.0	.0	.4	.7	1.2	.0	29	.0	2.3
3	.0	.0	.0	.1	.5	1.2	.3	.0	27	.0	2.1
2	.0	.0	.0	.0	1.7	2.3	.0	.0	51	.1	3.9
1	.0	.0	.0	.0	3.6	2.4	.0	.0	78	.0	6.1
0	.0	.0	.0	.2	11.2	2.7	.0	.0	182	.1	14.1
-1	.0	.0	.1	.6	17.9	1.7	.0	.0	262	.0	20.3
-2	.0	.0	.0	1.3	15.9	1.0	.0	.0	235	.1	18.2
-3	.0	.0	.0	1.9	7.3	.2	.0	.0	121	.1	9.3
-4	.0	.0	.0	2.9	5.9	.0	.0	.0	113	.0	8.8
-5	.0	.1	.4	3.0	3.2	.0	.0	.0	86	.0	6.7
-6	.0	.0	.4	1.2	.4	.0	.0	.0	25	.0	1.9
-7/-8	.0	.6	.8	1.1	.5	.0	.0	.0	38	.2	2.7
-9/-10	.0	.5	.4	.5	.0	.0	.0	.0	17	.1	1.2
-11/-13	.2	.2	.0	.0	.0	.0	.0	.0	7	.0	.5
TOTAL	3		28		887		27		1288	8	1280
PCT	.2	1.3	2.2	12.7	68.9	12.4	2.1	.2	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0		.5	.5	.5	.0	.0	.0	.0		.9
1-2	.0	.1	.3	.0	.0	.0		.4	.1	.4	.4	.0	.0	.0		1.0
3-4	.0	.2	.0	.0	.0	.0		.2	.0	.0	.2	.0	.0	.0		.2
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0		*
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	.6	.3	.0	.0	.0		1.0	.6	.9	.7	.0	.0	.0		2.2

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.8	.0	.0	.0	.0		1.0	.8	2.9	.1	.0	.0	.0		3.8
1-2	.1	.9	.2	.0	.0	.0		1.2	.3	4.0	.3	.0	.0	.0		4.6
3-4	.0	.3	.4	.0	.0	.0		.7	.0	1.9	1.2	.2	.0	.0		3.4
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.0		.4
7	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.0	.7	.1	.0	.0		3.2	1.1	8.8	2.0	.2	.0	.0		12.1

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0013 GULF OF GUINEA EAST
1.8N 5.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.4	4.4	.2	.0	.0	.0	6.1		1.3	4.5	.2	.0	.0	.0	.0	6.0	
1-2	.6	15.5	2.4	.0	.0	.0	18.5		1.2	12.3	3.0	.0	.0	.0	.0	16.5	
3-4	.1	4.1	1.8	.0	.0	.0	6.0		.*	2.8	1.7	.0	.0	.0	.0	4.6	
5-6	.0	.3	1.3	.2	.0	.0	1.9		.0	.4	.3	.0	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	24.3	5.8	.2	.0	.0	32.4		2.5	20.1	5.2	.0	.0	.0	.0	27.8	

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	4.5	.0	.0	.0	.0	4.8		.1	1.0	.0	.0	.0	.0	.0	1.1	
1-2	.2	4.1	1.9	.0	.0	.0	6.2		.1	.3	.1	.0	.0	.0	.0	.6	
3-4	.0	.9	.3	.0	.0	.0	1.2		.0	.*	.0	.0	.0	.0	.0	.*	
5-6	.0	.1	.4	.0	.0	.0	.5		.0	.1	.0	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	9.6	2.6	.0	.0	.0	12.7		.3	1.4	.1	.0	.0	.0	.0	1.8	93.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	18.9	.6	.0	.0	.0	32.1	
1-2	3.0	36.8	8.4	.0	.0	.0	48.2	
3-4	.1	10.0	5.5	.2	.0	.0	15.8	
5-6	.0	.9	2.5	.2	.0	.0	3.6	
7	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.8	66.6	17.1	.6	.0	.0	100.0	894

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.8	17.0	10.8	3.3	.4	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	401
6-7	.2	3.6	6.4	4.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158
8-9	.2	2.5	4.4	3.8	.7	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134
10-11	.0	1.8	1.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47
12-13	.0	.0	3.9	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDET	11.1	8.4	4.7	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	282
TOTAL	185	356	343	146	26	8	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1070
PCT	17.3	33.3	32.1	13.6	2.4	.7	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

MAY

AREA 0013 GULF OF GUINEA EAST
2.0N 6.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	12.5	9.4	.0	.0	.0	.0	.0	21.9	3.1	14.1	.0	.0	3.1	.0	60.9	
NE	10.4	.0	.0	.0	.0	.0	.0	10.4	.0	.0	4.7	.0	3.8	.0	81.1	
E	11.6	6.3	4.2	.0	.0	.0	.0	22.1	.0	6.3	3.7	.0	.0	.0	67.9	
SE	3.2	2.0	1.1	.0	.0	.0	.0	6.2	5.8	3.3	1.1	.0	.0	.0	83.7	
S	3.4	1.3	.4	.0	.0	.0	.0	4.9	4.6	4.4	.0	.0	.1	.0	87.2	
SW	5.7	2.6	.3	.0	.0	.0	.0	8.6	2.2	7.0	1.5	.0	.1	.3	82.1	
W	4.4	1.8	1.1	.0	.0	.0	.0	7.2	2.6	8.6	2.1	.0	.0	.0	79.4	
NW	1.0	7.8	1.9	.0	.0	.0	.0	10.7	3.9	1.9	.0	.0	3.9	.0	79.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8	1.9	1.0	.0	.0	.0	.0	7.6	3.8	3.8	9.5	.0	.0	.0	75.2	
TOT PCT	4.7	2.2	.7	.0	.0	.0	.0	7.6	3.6	5.4	1.6	.0	.3	.1	82.3	
TOT OBS:	1427															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	6.0	1.1	.8	.0	.0	.0	.0	7.7	3.6	12.1	1.1	.0	.0	.0	.0	77.5
06009	5.4	3.3	.3	.0	.0	.0	.0	9.0	3.6	5.4	2.7	.0	.0	.0	.0	80.2
12015	3.6	3.1	.9	.0	.0	.0	.0	7.6	4.3	.7	.9	.0	.7	.0	.0	86.3
18021	4.2	1.4	.6	.0	.0	.0	.0	6.2	3.1	3.7	1.7	.0	.3	.3	.3	85.1
TOT PCT TOT OBS:	4.7 1475	2.2	.7	.0	.0	.0	.0	7.6	3.7	5.3	1.6	.0	.3	.1	.1	82.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+						00	03	06	09	12	15	18	21
N	.4	1.2	.4	.0	.0	.0			1.9	7.0		1.9	1.4	2.3	3.1	2.5	.5	1.7	1.7
NE	.3	1.4	.2	.0	.0	.0			2.0	7.5		1.4	1.7	3.0	2.4	3.2	2.0	.4	1.2
E	.4	2.1	.5	.0	.0	.0			3.1	7.5		2.4	4.4	3.4	3.7	4.4	2.7	1.4	2.2
SE	1.3	7.3	2.6	.1	.0	.0			11.3	8.1		9.8	11.8	11.1	9.9	12.9	10.9	11.7	11.5
S	2.3	22.6	6.8	.1	.0	.0			31.9	8.4		31.8	30.4	35.3	29.7	32.0	28.2	32.6	34.1
SW	1.5	20.5	6.0	.1	.0	.0			28.2	8.4		30.6	28.9	21.8	29.2	23.5	32.2	30.6	31.7
W	1.1	9.4	1.8	.1	.0	.0			12.3	7.7		12.7	13.7	10.1	13.1	10.5	16.2	12.3	11.9
NW	.5	2.5	.7	.0	.0	.0			3.7	7.5		3.7	5.0	2.1	4.9	3.4	3.9	3.2	3.9
VAR	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7								5.7	.0		5.6	2.6	10.9	4.1	7.7	3.4	6.0	2.0
TOT OBS	420	2094	591	15	4	0		3124		7.7		624	347	348	245	609	297	401	253
TOT PCT	13.4	67.0	18.9	.5	.1	.0		100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	1.1	.7	.1	.0	.0				1.9	7.0	1.7	2.6	1.8	1.7
NE	1.3	.5	.1	.0	.0				2.0	7.5	1.5	2.8	2.8	.7
E	1.8	1.0	.2	.0	.0				3.1	7.5	3.1	3.5	3.8	1.7
SE	4.9	6.0	.3	.0	.0				11.3	8.1	10.5	10.6	12.3	11.6
S	11.9	18.7	1.2	.1	.0				31.9	8.4	31.3	33.0	30.7	33.2
SW	10.3	17.2	.6	.1	.0				28.2	8.4	30.0	24.8	26.4	31.0
W	5.3	6.7	.3	.0	.0				12.3	7.7	13.0	11.3	12.3	12.2
NW	1.8	1.7	.1	.0	.0				3.7	7.5	4.2	3.2	3.6	3.4
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0
CALM	5.7								5.7	.0	4.5	8.1	6.3	4.4
TOT OBS	1394	1638	94	7	1		3124		7.7		971	593	906	654
TOT PCT	44.3	52.4	3.0	.2	.0		100.0				100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

MAY

AREA 0013 GULF OF GUINEA EAST
2.0N 6.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.5	7.0	68.9	19.2	.4	.0	.0	.0	7.8	100.0	971
06009	8.1	5.7	66.6	19.1	.3	.2	.0	.0	7.7	100.0	593
12015	6.3	9.5	66.1	17.2	.6	.3	.0	.0	7.5	100.0	906
18021	4.4	8.3	65.9	20.8	.6	.0	.0	.0	7.8	100.0	654
TOT	178	242	2094	591	15	4	0	0	7.7		3124
PCT	5.7	7.7	67.0	18.9	.5	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	.7	1.0		6.4
NE	.2	*	.5	.7		6.4
E	.0	.5	.8	1.5		6.7
SE	2.8	2.5	5.2	3.6		5.1
S	7.1	8.3	14.9	9.3		5.1
SW	2.5	3.9	9.4	8.0		5.8
W	.5	1.6	4.2	2.2		5.8
NW	*	.1	.6	.5		6.5
VAR	.0	.0	.0	.0		.0
CALM	.4	1.4	3.2	1.2		5.5
TOT OBS	154	214	450	320	1138	5.5
TOT PCT	13.5	18.8	39.5	28.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.2	.0	.0	.4	.4	.1	.2	.1	.1	.0	.7	
NE	.0	.0	.0	.1	.3	.3	.3	.0	.0	.1	.4	
E	.3	.0	.0	.4	.6	.2	.4	.0	.1	.0	.9	
SE	.1	.0	.4	1.3	2.1	1.3	.4	.0	.2	.2	8.2	
S	.0	.2	3.2	6.2	5.2	.4	.2	.2	.2	23.8		
SW	.5	.0	2.0	3.1	2.5	1.1	*	.0	.3	14.0		
W	.3	.0	.7	1.9	1.2	.4	.0	.0	.2	4.0		
NW	.0	.0	.0	.1	.2	.1	.1	.0	.0	.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.1	.0	.0	.3	.9	1.2	.5	.0	.2	.3	2.7	
TOT OBS	16	0	9	98	178	137	43	3	9	14	631	1138
TOT PCT	1.4	.0	.8	8.6	15.6	12.0	3.8	.3	.8	1.2	55.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.8	2.0	2.2	2.2	2.2	2.2	2.2	2.2
= OR >5000	2.1	2.2	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	5.0	5.6	6.2	6.2	6.2	6.2	6.2	6.2
= OR >2000	14.5	17.0	18.0	18.3	18.3	18.3	18.3	18.3
= OR >1000	25.4	31.2	33.2	33.6	33.7	33.7	33.7	33.7
= OR >600	31.0	38.5	41.5	42.0	42.0	42.0	42.2	42.2
= OR >300	31.2	39.1	42.2	42.6	42.7	42.8	43.0	43.0
= OR >150	31.2	39.1	42.2	42.6	42.7	42.8	43.0	43.0
= OR >0	31.2	39.5	43.3	43.9	44.0	44.1	44.3	44.3
TOTAL	361	457	500	507	509	510	512	512

TOTAL NUMBER OF OBS: 1156

PCT FREQ NH <5/8: 55.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.2	8.5	14.3	14.2	11.9	8.9	10.3	8.9	15.6	1.3 1209

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

MAY

AREA 0013 GULF OF GUINEA EAST
2.0N 6.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.1	*	.0	.1	.2	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.1	.1	*	.0	.1	.3	
1<2	PCP	.1	.1	.1	.1	.1	.0	.1	.0	.0	.1	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.1	.0	.1	.0	.0	.1	.6	
2<5	PCP	.2	.0	.2	.2	.1	.4	.3	.1	.0	.1	1.6	
	NO PCP	.0	.1	.2	.4	.1	.4	.1	.0	.0	.8	2.2	
	TOT %	.2	.1	.5	.6	.1	.8	.5	.1	.0	1.0	3.8	
5<10	PCP	.1	*	.3	.4	1.0	1.2	.2	.1	.0	.3	3.7	
	NO PCP	.7	.7	1.0	1.6	4.1	3.5	2.6	.5	.0	1.0	15.7	
	TOT %	.9	.8	1.2	2.0	5.2	4.7	2.8	.6	.0	1.3	19.3	
10+	PCP	.1	.1	.1	.1	.6	.4	.1	.0	.0	.0	1.4	
	NO PCP	1.0	.8	1.4	10.5	30.2	17.8	6.5	1.1	.0	5.0	74.3	
	TOT %	1.1	.9	1.5	10.6	30.7	18.2	6.6	1.1	.0	5.0	75.7	
TOT OBS													1417
TOT PCT													
		2.3	1.9	3.4	13.2	36.2	23.9	10.0	1.7	.0	7.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.1	*	*	.0	.0	.1	
	11-21	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	*	.0	.1	*	*	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.2	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.2	.1	.0	.1	.0	.0	.1	.6	
2<5	0-3	*	.0	.0	.0	.0	.2	.1	.1	.0	.7	1.0	
	4-10	.2	.1	.2	.3	.3	.6	.4	.1	.0	.0	2.1	
	11-21	.0	.1	.1	.2	.1	.2	.1	*	.0	.7	.7	
	22+	.0	.0	.1	.1	*	*	.0	.0	.0	.2	.2	
	TOT %	.2	.2	.4	.5	.4	.9	.5	.2	.0	.7	4.0	
5<10	0-3	.1	.0	.1	.1	.2	.1	.1	.0	.0	1.0	1.7	
	4-10	.4	.5	.6	.9	3.1	3.2	1.7	.5	.0	.0	11.1	
	11-21	.3	.1	.2	.4	1.2	1.5	.7	.1	.0	.0	4.4	
	22+	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	
	TOT %	.7	.6	.9	1.5	4.5	4.8	2.6	.6	.0	1.0	17.3	
10+	0-3	.3	.3	.3	.6	2.0	1.1	.6	.5	.0	5.5	11.2	
	4-10	.6	.8	1.3	6.4	18.7	16.4	6.7	1.1	.0	.0	52.0	
	11-21	.1	.1	.1	2.7	6.6	3.3	1.0	.4	.0	.0	14.3	
	22+	.0	*	*	*	*	.1	.0	.0	.0	.2	.2	
	TOT %	1.1	1.1	1.8	9.7	27.3	20.8	8.3	2.0	.0	5.5	77.7	
TOT OBS													1945
TOT PCT													
		2.1	2.0	3.3	11.9	32.4	26.7	11.5	2.8	.0	7.4	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

MAY

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	5.3	.0	.4	8.0	14.4	8.3	1.5	.4	.8	1.1	40.2	59.8	264
06009	.0	.0	1.1	8.4	15.0	15.4	3.3	.0	1.5	1.1	45.8	54.2	273
12015	.3	.0	.6	8.8	15.6	11.9	5.4	.3	.3	.8	43.9	56.1	353
18021	.3	.0	1.0	9.2	15.3	11.2	4.1	.3	1.0	2.0	44.6	55.4	294
TOT	16	0	9	102	179	139	44	3	10	15	517	667	1184
PCT	1.4	.0	.8	8.6	15.1	11.7	3.7	.3	.8	1.3	43.7	56.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.2	.2	2.6	17.0	80.0	540
06009	.2	1.0	.7	5.7	16.7	75.7	420
12015	.3	.0	1.0	4.2	18.8	75.6	573
18021	.2	.0	.4	3.7	17.4	78.3	460
TOT	4	5	12	79	350	1543	1993
PCT	.2	.3	.6	4.0	17.6	77.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	5.1	5.5	13.7	27.5	58.8	255
06009	.0	1.5	17.2	31.3	51.5	268
12015	.3	1.4	12.1	32.4	55.5	346
18021	.3	1.4	12.5	33.1	54.4	287
TOT	15	27	159	361	636	1156
PCT	1.3	2.3	13.8	31.2	55.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
85/89	.0	.0	.0	.0	.2	4.4	.6	.1	54	5.3
80/84	.0	.0	.0	.0	.4	19.9	40.6	5.8	679	66.7
75/79	.0	.0	.0	.0	.0	1.8	17.7	7.8	277	27.2
70/74	.0	.0	.0	.0	.0	.0	.2	.5	7	.7
TOTAL	0	0	0	0	6	267	601	144	1018	100.0
PCT	.0	.0	.0	.0	.6	26.2	59.0	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
85/89	.1	.0	.1	.4	1.6	1.4	.7	.2	.0	.8
80/84	.2	.6	1.2	8.1	28.5	17.5	6.1	.8	.0	3.6
75/79	.5	.9	1.5	6.2	11.0	4.6	1.9	.2	.0	.4
70/74	.0	.0	.0	.2	.3	.0	.0	.0	.0	.2
TOTAL	.8	1.5	2.8	14.9	41.5	23.4	8.8	1.3	.0	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	90	84	83	81	76	68	63	80.1	973
06009	88	86	84	81	73	66	63	79.9	600
12015	92	90	87	82	77	70	63	82.0	917
18021	93	85	84	81	75	66	63	80.4	662
TOT	93	88	85	81	75	66	63	80.7	3152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	.0	19.6	65.7	14.7	84	265
06009	.0	.0	.0	21.0	60.9	18.1	84	243
12015	.0	.0	1.7	41.9	46.3	10.1	81	296
18021	.0	.0	.4	21.8	63.2	14.6	84	239
TOT	0	0	6	279	610	148	83	1043

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1868-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
9/10	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.4	.1	.2	.1	.0	11	.0	.8
6	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.1
5	.0	.0	.0	.0	.1	.1	.0	.2	.0	5	.0	.4
4	.0	.0	.0	.1	.4	.5	.6	.5	.0	28	.0	2.1
3	.0	.0	.0	.0	.7	.4	.4	.1	.0	23	.0	1.7
2	.0	.0	.0	.3	.8	1.4	1.3	.1	.0	52	.0	3.8
1	.0	.0	.0	.9	1.8	2.5	1.8	.0	.0	95	.1	6.9
0	.0	.0	.0	.6	4.1	8.3	1.5	.0	.0	196	.2	14.2
-1	.0	.0	.0	.7	4.4	12.5	.7	.0	.0	248	.1	18.1
-2	.0	.0	.0	.2	3.8	11.1	.1	.0	.0	207	.4	14.8
-3	.0	.0	.0	.1	4.1	6.6	.0	.0	.0	147	.4	10.4
-4	.0	.0	.0	.3	3.5	3.5	.0	.0	.0	99	.1	7.2
-5	.0	.0	.0	.1	3.8	1.8	.0	.0	.0	76	.0	5.6
-6	.0	.0	.0	.2	1.6	.4	.0	.0	.0	30	.0	2.2
-7/-8	.0	.0	.0	.8	1.3	.4	.0	.0	.0	35	.0	2.6
-9/-10	.0	.0	.4	.1	.5	.1	.0	.0	.0	15	.1	1.0
-11/-13	.0	.0	.5	.3	.0	.0	.0	.0	.0	11	.0	.8
-14/-16	.0	1.1	1.0	.0	.0	.0	.0	.0	.0	28	.0	2.1
-17/-19	.2	2.2	.0	.0	.0	.0	.0	.0	.0	33	.1	2.4
-20/-22	.4	.3	.0	.0	.0	.0	.0	.0	.0	10	.0	.7
-23/-25	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	10	49	25	66	422	678	89	16	1	1356	23	1333
PCT	.7	3.6	1.8	4.9	31.1	50.0	6.6	1.2	.1	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.6	.0	.0	.0	.0	1.0		.4	.5	.0	.0	.0	.0	.6	
1-2	.1	.6	.3	.0	.0	.0	1.0		.0	.6	.1	.0	.0	.0	.8	
3-4	.0	.3	.1	.0	.0	.0	.3		.0	.2	.*	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	1.5	.3	.0	.0	.0	2.3		.*	1.4	.1	.0	.0	.0	1.5	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.0	.0	.0	.0	.6		.4	1.0	.0	.0	.0	.0	1.5	
1-2	.2	.9	.2	.0	.0	.0	1.3		.4	4.4	1.9	.0	.0	.0	6.7	
3-4	.0	.5	.1	.1	.0	.0	.7		.0	1.8	1.7	.1	.0	.0	3.6	
5-6	.0	.0	.3	.0	.0	.0	.3		.0	.1	.9	.0	.0	.0	1.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.8	.6	.1	.0	.0	2.8		.8	7.4	4.5	.1	.0	.0	12.7	

PERIOD: (OVER-ALL) 1963-1976

MAY

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.8	.0	.0	.0	.0	5.5	1.0	6.0	.4	.0	.0	.0	7.4
1-2	.9	13.3	3.4	.0	.0	.0	17.6	.2	10.4	1.8	.0	.0	.0	12.4
3-4	.1	4.1	4.6	.0	.0	.0	8.8	*	2.3	1.3	.0	.0	.0	3.6
5-6	.0	.7	1.8	.1	.0	.0	2.5	.0	.3	.7	*	.0	.0	1.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	23.0	9.9	.1	.0	.0	34.7	1.3	19.1	4.2	*	.0	.0	24.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.8	.0	.0	.0	.0	2.3	.4	.5	.0	.0	.0	.0	.9	
1-2	.1	5.6	.9	.0	.0	.0	6.5	.0	.3	.2	.0	.0	.0	.5	
3-4	.0	.6	.6	.0	.0	.0	1.2	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	8.1	1.6	.1	.0	.0	10.3	.4	.9	.3	.0	.0	.0	1.6	90.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.5	15.6	.4	.0	.0	.0	29.5	
1-2	2.3	35.8	8.6	.0	.0	.0	46.7	
3-4	.2	9.7	8.3	.2	.0	.0	18.4	
5-6	.0	1.2	3.6	.1	.0	.0	5.0	
7	.0	.1	.3	.1	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.0	62.5	21.1	.4	.0	.0	100.0	1050

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	18.0	9.0	3.3	.7	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	437
6-7	.0	6.0	10.7	5.0	1.5	.7	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	299
8-9	.0	1.6	2.9	2.1	1.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104
10-11	.0	1.4	.7	1.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
12-13	.0	.0	.8	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
>13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDET	14.5	5.5	3.3	1.0	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	306
TOTAL	226	398	335	167	56	26	15	0	1	0	0	0	0	0	0	0	0	0	0	0	1224
PCT	18.5	32.3	27.4	13.6	4.6	2.1	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1872-1975

JUNE

AREA 0013 GULF OF GUINEA EAST
2.2N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	20.0	6.7	.0	.0	.0	.0	.0	26.7	6.7	6.7	.0	.0	.0	.0	60.0
NE	29.4	17.6	.0	.0	.0	.0	.0	47.1	11.8	.0	.0	.0	.0	.0	41.2
E	17.6	5.9	.0	.0	.0	.0	.0	23.5	.0	11.8	.0	.0	.0	.0	64.7
SE	3.5	.8	.8	.0	.0	.0	.0	5.1	.6	1.6	3.3	.0	1.0	.0	89.1
S	3.9	1.2	.0	.0	.0	.0	.0	5.1	3.7	1.1	.5	.0	1.0	.0	88.8
SW	5.7	1.5	1.6	.0	.0	.0	.0	8.5	4.6	2.3	.5	.0	.6	.0	83.5
W	13.3	4.1	1.6	.0	.0	.0	.0	19.0	4.9	3.8	1.1	.0	.0	.0	71.2
NW	30.4	1.4	.0	.0	.0	.0	.0	31.9	.0	.0	5.8	.0	.0	.0	62.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1	2.7	.0	.0	.0	.0	.0	8.8	2.0	3.4	6.1	.0	.7	.0	81.0
TOT PCT	6.2	1.9	.6	.0	.0	.0	.0	8.6	3.6	2.1	1.5	.0	.7	.0	83.9
TOT OBS:	1234														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.8	2.2	.6	.0	.0	.0	.0	5.6	2.8	5.3	.0	.0	.3	.0	86.2
0600	9.3	2.8	1.0	.0	.0	.0	.0	12.8	3.8	.3	4.2	.0	1.0	.0	78.2
1200	8.9	2.0	.8	.0	.0	.0	.0	11.7	3.6	1.4	.6	.0	1.1	.0	82.4
1800	3.1	.7	.0	.0	.0	.0	.0	3.8	3.8	1.0	1.7	.0	.3	.0	89.4
TOT PCT	6.1	1.9	.6	.0	.0	.0	.0	8.6	3.5	2.1	1.5	.0	.7	.0	84.0
TOT OBS:	1259														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	.7	.1	.0	.0	.0		1.2	6.0		.2	1.3	1.1	3.7	1.7	.9	.6	1.2
NE	.1	.5	.1	.0	.0	.0		.7	5.7		.7	1.0	.6	2.0	.7	.5	.0	.5
E	.2	.4	.1	.0	.0	.0		.7	6.7		.1	1.0	1.4	.8	1.1	.5	.3	.5
SE	.5	5.4	1.5	.0	.0	.0		7.5	8.0		7.1	6.2	11.5	5.5	8.7	6.1	7.5	5.4
S	1.8	21.3	12.0	.3	.0	.0		35.4	9.6		36.1	35.9	39.8	32.2	33.3	33.2	36.6	35.8
SW	1.8	19.2	12.6	.3	.0	.0		33.9	9.7		37.0	34.3	21.8	37.6	29.3	41.4	35.6	38.2
W	.9	7.0	2.8	.2	.0	.0		10.8	8.9		10.4	14.1	6.0	12.2	10.7	11.7	9.9	13.7
NW	.5	2.0	.7	.0	.0	.0		3.2	7.8		2.2	3.6	1.8	4.8	4.5	4.6	1.0	3.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6							6.6	.0		6.3	2.6	15.9	1.3	9.9	1.0	8.5	1.0
TOT OBS	348	1540	814	23	0	0	2725		8.6		527	304	314	230	513	292	342	203
TOT PCT	12.8	56.5	29.9	.8	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.8	.3	.0	.0	.0	.0	1.2	6.0	.6	2.2	1.4	.8	
NE	.5	.2	.0	.0	.0	.0	.7	5.7	.8	1.2	.6	.2	
E	.5	.1	.1	.0	.0	.0	.7	6.7	.4	1.1	.9	.4	
SE	2.9	4.5	.1	.0	.0	.0	7.5	8.0	6.7	9.0	7.8	5.7	
S	9.4	23.6	2.4	.0	.0	.0	35.4	9.6	36.1	36.6	33.3	36.3	
SW	9.5	21.8	2.6	.1	.0	.0	33.9	9.7	36.0	28.5	33.7	36.6	
W	3.7	6.4	.7	.0	.0	.0	10.8	8.9	11.8	8.6	11.1	11.3	
NW	1.4	1.7	.1	.0	.0	.0	3.2	7.8	2.7	3.0	4.6	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.6						6.6	.0	4.9	9.7	6.7	5.7	
TOT OBS	961	1595	165	4	0	2725		8.6	831	544	805	545	
TOT PCT	35.3	58.5	6.1	.1	.0		100.0		100.0	100.0	100.0	100.0	

GENERATED AUTOMATICALLY BY WIND SPEED DATA (ONLY)

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1872-1975

JUNE

AREA 0013 GULF OF GUINEA EAST
2.2N 6.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.9	3.0	58.5	31.9	1.1	.0	.0	.0	9.1	100.0	831
06009	9.7	7.0	54.6	27.8	.9	.0	.0	.0	8.3	100.0	544
12015	6.7	8.0	56.0	28.7	.6	.0	.0	.0	8.3	100.0	805
18021	5.7	6.8	56.1	30.6	.7	.0	.0	.0	8.7	100.0	545
TOT	179	169	1540	814	23	0	0	0	8.6		2725
PCT	6.6	6.2	56.5	29.9	.8	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.1	.3		7.7
NE	.1	.0	.0	.3		6.0
E	.0	.0	.2	.4		7.4
SE	3.2	1.9	4.0	3.1		4.8
S	9.5	8.6	13.6	12.6		5.0
SW	2.5	2.9	9.3	11.5		6.2
W	.0	.5	2.3	3.3		6.9
NW	.0	.1	.4	.7		7.2
VAR	.0	.0	.0	.0		.0
CALM	.9	1.0	3.5	2.9		5.8
TOT OBS	140	129	287	303	859	5.5
TOT PCT	16.3	15.0	33.4	35.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.0	.0	.0	.2	.0	.0	.1	.0	
NE	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.1	
E	.1	.0	.0	.2	.0	.1	.0	.0	.0	.0	.2	
SE	.2	.0	*	1.4	1.4	1.2	.3	.1	.0	.2	7.3	
S	.2	.1	.3	2.9	8.4	5.2	1.5	.2	.0	.3	25.1	
SW	.4	.0	.1	1.9	5.4	4.3	1.5	.3	.1	.7	11.4	
W	.1	.1	.1	.3	1.5	1.4	.3	.0	.1	.0	2.1	
NW	.0	.0	.0	.0	.6	.1	.1	.0	.1	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.1	.0	.2	1.5	2.3	.7	.0	.0	.1	3.3	
TOT OBS	10	3	6	59	162	130	40	6	3	13	427	859
TOT PCT	1.2	.3	.7	6.9	18.9	15.1	4.7	.7	.3	1.5	49.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.8	2.1	2.1	2.1	2.1	2.1	2.1
* OR >5000	2.1	2.5	2.7	2.7	2.7	2.7	2.7	2.7
* OR >3500	5.9	7.2	7.4	7.4	7.4	7.4	7.4	7.4
* OR >2000	16.5	20.8	22.4	22.4	22.4	22.4	22.4	22.4
* OR >1000	30.2	38.8	41.2	41.2	41.3	41.3	41.3	41.3
* OR >600	34.6	45.3	48.1	48.1	48.2	48.2	48.2	48.2
* OR >300	35.0	45.8	48.7	48.7	48.9	48.9	48.9	48.9
* OR >150	35.1	46.0	49.1	49.1	49.2	49.2	49.2	49.2
* OR > 0	35.3	46.7	50.1	50.1	50.3	50.3	50.3	50.3
TOTAL	310	410	440	440	442	442	442	442

TOTAL NUMBER OF OBS: 878

PCT FREQ NH <5/8: 49.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	8.3	8.0	10.3	10.6	10.3	8.9	9.4	8.8	24.3	1.0	963

JUNE

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1872-1975AREA 0013 GULF OF GUINEA EAST
2.2N 6.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.2	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.0	.0	.0	.0	.1	.1	.0	.0	.2	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.1	.2	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.1	*	.0	.1	.3	
2<5	PCP	.1	.1	.1	.1	.4	.5	.1	.2	.0	.2	1.7	
	NO PCP	.0	.0	.0	.1	.5	.4	.0	.1	.0	.8	1.9	
	TOT %	.1	.1	.1	.2	.9	1.0	.1	.2	.0	1.0	3.6	
5<10	PCP	.2	.2	.1	.2	1.1	1.1	.7	.3	.0	.6	4.6	
	NO PCP	.6	.1	.3	1.3	6.1	6.3	1.6	.3	.0	2.0	18.8	
	TOT %	.9	.4	.4	1.5	7.3	7.4	2.3	.6	.0	2.7	23.4	
10+	PCP	.0	.0	.0	.2	.5	.6	.3	.0	.0	.1	1.8	
	NO PCP	.2	.2	.2	7.9	30.3	18.6	4.5	.5	.0	7.9	70.4	
	TOT %	.2	.2	.2	8.2	30.8	19.2	4.8	.5	.0	8.0	72.2	
TOT OBS													1233
TOT PCT		1.2	.7	.7	9.9	39.1	27.7	7.5	1.4	.0	11.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.1	*	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.0	.0	.1	.1	.1	.0	.0	.1	.4	
1<2	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.0	.2	*	.2	*	.0	.0	.4	
	11-21	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.4	.3	.2	*	.0	.2	1.2	
2<5	0-3	.0	.1	.1	.0	.1	*	.1	.1	.0	.8	1.2	
	4-10	.1	.0	.0	.1	.6	.5	.2	.1	.0	.0	1.6	
	11-21	.0	.0	.1	.1	.2	.6	.1	.1	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.2	.9	1.2	.3	.3	.0	.8	4.0	
5<10	0-3	.3	.1	*	.2	.5	.4	.1	.1	.0	1.9	3.6	
	4-10	.7	.2	.2	1.0	3.6	4.7	1.5	.5	.0	.0	12.0	
	11-21	.0	.1	.1	.3	2.9	2.9	.6	.1	.0	.0	7.0	
	22+	.0	.0	.0	.0	.1	.3	.2	.0	.0	.0	.5	
	TOT %	.8	.3	.3	1.4	7.1	8.3	2.4	.6	.0	1.9	23.1	
10+	0-3	.0	.1	.1	.3	1.3	1.3	.3	.0	.0	6.2	9.6	
	4-10	.2	.3	.2	4.7	17.3	14.4	4.0	.4	.0	.0	41.5	
	11-21	.1	.0	.0	1.5	9.0	7.2	1.8	.2	.0	.0	19.9	
	22+	.0	.0	.0	*	.2	*	*	.0	.0	.0	.2	
	TOT %	.3	.3	.2	6.5	27.8	23.0	6.2	.6	.0	6.2	71.3	
TOT OBS													1715
TOT PCT		1.2	.8	.7	8.2	36.4	32.8	9.2	1.5	.0	9.3	100.0	

PERIOD: (PRIMARY) 1975-1979
(OVER-ALL) 1972-1979

JUNE

AREA 0013 GULF OF GUINEA EAST
2.2N 6.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	TOT	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	499	599	699	799	899	999	1099	1199	1299	1399	1499	1599	1699	1799	1899	1999	2099	2199	2299	2399	2499	2599	2699	2799
00003	2.0	.0	.5	5.0	13.5	7.0	5.0	.5	.5	2.0	36.0	64.0	200														
06009	1.8	.5	.9	7.3	25.6	21.5	4.6	.0	.5	.9	63.5	36.5	219														
12015	.4	.4	.8	7.6	19.2	14.4	5.6	1.2	.4	1.6	51.6	48.4	250														
18021	.4	.4	.4	6.5	15.2	15.2	3.0	.9	.4	1.7	44.3	55.7	230														
TOT	10	3	6	60	166	132	41	6	4	14	442	457	899														
PCT	1.1	.3	.7	6.7	18.5	14.7	4.6	.7	.4	1.6	49.2	50.8	100.0														

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.0	.0	.4	2.3	18.7	78.6	487
06009	.0	1.1	1.1	6.7	24.9	66.3	374
12015	.2	.6	1.8	4.0	30.7	62.6	495
18021	.0	.0	1.3	3.4	17.2	78.1	384
TOT	1	7	20	69	402	1241	1740
PCT	.1	.4	1.1	4.0	23.1	71.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8 AND 5+	TOTAL OBS
(GMT)	<50YD	<1	<5	AND 5+		
00003	2.2	2.7	8.7	30.4	60.9	184
06009	1.8	3.2	15.6	48.2	36.2	218
12015	.4	2.0	12.0	40.2	47.8	249
18021	.4	1.3	10.1	35.2	54.6	227
TOT	10	20	103	341	434	878
PCT	1.1	2.3	11.7	38.8	49.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.0	.0	.0	2	.2
85/89	.0	.0	.0	.0	.0	.4	.0	.0	4	.4
80/84	.0	.0	.0	.0	1.0	13.1	20.6	.4	321	35.2
75/79	.0	.0	.0	.0	.1	8.8	28.3	11.9	448	49.1
70/74	.0	.0	.0	.0	.0	1.0	7.0	7.1	138	15.1
TOTAL	0	0	0	1	11	213	510	178	913	100.0
PCT	.0	.0	.0	.1	1.2	23.3	55.9	19.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.1	.1	.0	.0	.0	.0
85/89	.0	.0	.0	.2	.2	.0	.0	.0	.0
80/84	.1	.2	.2	1.3	12.5	13.4	2.9	.7	.0
75/79	.8	.3	.2	5.9	24.1	12.5	2.9	.5	.0
70/74	.5	.3	.1	5.0	7.1	1.3	.3	.0	.5
TOTAL	1.3	.8	.5	12.2	43.9	27.5	6.1	1.2	.0
PCT	1.3	.8	.5	12.2	43.9	27.5	6.1	1.2	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	94	82	81	78	71	63	61	77.2	830
06009	92	83	82	78	68	63	59	77.0	543
12015	91	86	84	79	73	63	59	78.6	793
18021	87	83	82	78	71	63	61	77.5	550
TOT	94	84	82	78	71	63	59	77.6	2716

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	.0	.8	18.8	58.2	22.2	84	239		
06009	.0	.5	.0	15.9	58.9	24.6	85	207		
12015	.0	.0	3.0	29.4	51.3	16.2	83	265		
18021	.0	.0	.5	27.1	57.0	15.4	83	221		
TOT	0	1	11	216	523	181	84	932		

JUNE

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1872-1975

TABLE 17

AREA 0013 GULF OF GUINEA EAST
2.2N 6.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	2	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	3	.0	.3
7/8	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	3	.0	.3
6	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	3	.0	.3
5	.0	.0	.0	.0	.0	.4	.0	.0	.1	.0	5	.0	.4
4	.0	.0	.0	.0	.1	.4	.3	.1	.0	.0	9	.0	.8
3	.0	.0	.0	.1	.8	.4	.3	.0	.0	.0	17	.2	1.3
2	.0	.0	.0	.2	1.8	1.1	.4	.0	.0	.0	38	.1	3.3
1	.0	.0	.0	.2	3.5	1.0	1.6	.2	.0	.0	72	.0	6.4
0	.0	.0	.2	1.1	4.9	4.2	3.4	.1	.0	.0	155	.3	13.6
-1	.0	.0	.0	.2	3.3	7.9	6.1	.2	.0	.0	197	.2	17.5
-2	.0	.0	.1	.2	2.4	10.4	4.7	.0	.0	.0	198	.3	17.5
-3	.0	.0	.0	.1	1.4	8.3	1.6	.0	.0	.0	128	.4	11.1
-4	.0	.0	.0	.4	1.0	5.5	1.1	.0	.0	.0	88	.3	7.6
-5	.0	.0	.0	.0	1.8	3.3	.4	.0	.0	.0	61	.1	5.4
-6	.0	.0	.0	.0	.7	.6	.0	.0	.0	.0	15	.0	1.3
-7/-8	.0	.0	.0	.0	.6	.4	.0	.0	.0	.0	11	.0	1.0
-9/-10	.0	.0	.0	.1	.5	.1	.0	.0	.0	.0	8	.0	.7
-11/-13	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	4	.0	.4
-14/-16	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	3	.0	.3
-17/-19	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	8	.0	.7
-20/-22	.0	2.6	.7	.0	.0	.0	.0	.0	.0	.0	37	.0	3.3
-23/-25	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	47	.0	4.2
-26/-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	2		76	17	32	260	224	10	4	1	1117	19	1098
PCT	.2	6.8	1.5	2.9	23.3	44.0	20.1	.9	.4	.1	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.2	.0	.0	.0	.0	.2		.1	.0	.0	.0	.0	.0	.1	
1-2	.2	.1	.0	.0	.0	.0	.3		.0	.1	.1	.0	.0	.0	.2	
3-4	.0	.0	.1	.0	.0	.0	.1		.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.1	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.5	.1	.0	.0	.0	.8		.1	.2	.1	.0	.0	.0	.5	

HGT	E								SE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.2	.0	.0	.0	.0	.2		.5	.4	.0	.0	.0	.0	.8	
1-2	.0	.1	.0	.0	.0	.0	.1		*	4.8	.6	.0	.0	.0	5.4	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.7	1.0	*	.0	.0	1.8	
5-6	.0	.0	.1	.0	.0	.0	.1		.0	.2	.4	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.1	.0	.0	.0	.4		.5	6.0	2.3	*	.0	.0	8.9	

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0013 GULF OF GUINEA EAST
2.2N 6.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	3.3	.1	.0	.0	.0		4.1	.9	3.2	.5	.0	.0	.0		4.6
1-2	.7	13.9	4.6	.0	.0	.0		19.2	.4	9.6	3.7	.0	.0	.0		13.8
3-4	.0	6.4	5.8	.2	.0	.0		12.4	.0	3.5	3.4	.2	.0	.0		7.2
5-6	.0	.3	2.1	.0	.0	.0		2.4	.0	.1	.7	*	.0	.0		.9
7	.0	.0	.4	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.2	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.4	23.9	13.6	.2	.0	.0		39.2	1.3	16.4	8.4	.3	.0	.0		26.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	1.2	.3	.0	.0	.0		1.6	.0	.0	*	.0	.0	.0		*	
1-2	.1	2.3	.4	.0	.0	.0		2.7	.0	.4	.5	.0	.0	.0		.8	
3-4	.0	.8	.9	.3	.0	.0		2.1	.0	.1	.0	.0	.0	.0		.1	
5-6	.0	.1	.7	.1	.0	.0		.9	.0	.0	.1	.0	.0	.0		.1	
7	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	4.3	2.5	.4	.0	.0		7.4	.0	.5	.6	.0	.0	.0		1.1	84.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.8	8.4	.9	.0	.0	.0	27.2	
1-2	1.7	31.1	9.9	.0	.0	.0	42.7	
3-4	.0	11.6	11.3	.8	.0	.0	23.6	
5-6	.0	.8	4.2	.1	.0	.0	5.1	
7	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.5	51.9	27.6	.9	.0	.0	100.0	880

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.5	17.4	11.2	2.4	1.3	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	358	3
6-7	.0	3.5	9.7	2.7	1.5	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	4
8-9	.0	.8	3.2	3.2	1.3	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	5
10-11	.0	1.1	1.8	1.8	.8	.1	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	5
12-13	.0	.0	.9	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
>13	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	13.4	5.7	3.8	3.3	1.5	1.2	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	299	2
TOTAL	161	290	312	141	66	26	9	0	11	1	0	0	0	0	0	0	0	0	0	0	1017	3
PCT	15.8	28.5	30.7	13.9	6.5	2.6	.9	.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975

JULY

AREA 0013 GULF OF GUINEA EAST
1.7N 6.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	11.1	.0	.0	.0	.0	.0	11.1	16.7	.0	.0	.0	.0	.0
NE	.0	17.6	.0	.0	.0	.0	.0	17.6	.0	.0	23.5	.0	.0	.0
E	.0	8.8	.0	.0	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0
SE	2.4	.9	.0	.0	.0	.0	.0	3.3	.7	.0	.2	.0	.5	.2
S	2.0	1.2	.3	.0	.0	.0	.0	3.5	1.3	.3	.5	.0	1.0	.0
SW	4.8	2.8	.6	.0	.0	.0	.0	8.2	3.2	1.5	.8	.0	.5	.0
W	13.4	3.4	.0	.0	.0	.0	.0	16.9	4.4	1.3	1.3	.0	1.3	.0
NW	49.4	.0	.0	.0	.0	.0	.0	49.4	6.5	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.1	.0	.0	.0
TOT PCT	4.3	1.9	.3	.0	.0	.0	.0	6.5	2.1	.7	.8	.0	.7	.1
TOT OBS:	1215													89.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	4.4	1.6	.6	.0	.0	.0	.0	6.6	2.2	2.2	.3	.0	.3	.0
05009	4.2	2.5	.4	.0	.0	.0	.0	7.0	2.5	.0	1.1	.0	.7	.4
12015	5.6	1.8	.0	.0	.0	.0	.0	7.4	1.5	.3	1.5	.0	1.2	.0
18021	3.3	2.0	.3	.0	.0	.0	.0	5.7	2.3	.7	.3	.0	.7	.0
TOT PCT	4.4	1.9	.3	.0	.0	.0	.0	6.7	2.1	.8	.8	.0	.7	.1
TOT OBS:	1238													88.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.3	*	*	.0	.0		.5	5.7	.4	.4	1.3	.9	.5	.0	.5	.0	
NE	.2	.2	*	*	.0	.0		.5	5.7	.4	.1	1.0	1.1	.2	.7	.4	.0	
E	.2	.5	.1	.0	.0	.0		.8	6.5	.5	.1	2.0	.2	1.5	1.0	.6	.0	
SE	.6	3.6	1.5	.0	.0	.0		5.7	8.6	5.5	5.0	8.4	3.4	6.9	3.3	7.5	3.7	
S	1.7	22.6	13.3	.4	.0	.0		38.0	9.8	36.8	30.3	48.5	30.4	44.7	31.9	42.5	31.9	
SW	1.1	21.9	16.3	.8	.0	.0		40.1	10.6	41.9	42.8	31.1	46.2	34.4	46.4	37.0	46.7	
W	.8	5.8	3.6	.0	.0	.0		10.1	9.4	10.9	13.1	2.7	10.4	9.1	13.2	8.6	14.2	
NW	.2	1.3	.3	.0	.0	.0		1.9	7.1	1.6	3.7	1.6	3.9	1.4	2.0	.3	1.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4							2.4	.0	2.0	4.4	3.4	3.5	1.2	1.6	2.7	1.7	
TOT OBS	211	1590	992	35	0	0	2828		9.7	538	339	320	230	517	304	338	242	
TOT PCT	7.5	56.2	35.1	1.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.4	.1	*	.0	.0		.5	5.7	.4	1.1	.3	.3
NE	.3	.1	*	.0	.0		.5	5.7	.3	1.0	.4	.2
E	.5	.3	.1	.0	.0		.8	6.5	.4	1.2	1.3	.3
SE	1.9	3.6	.2	.0	.0		5.7	8.6	5.3	6.3	5.6	5.9
S	9.2	25.6	3.3	.0	.0		38.0	9.8	34.3	41.0	40.0	38.1
SW	6.8	28.7	4.5	.0	.0		40.1	10.6	42.2	37.4	38.9	41.0
W	2.9	6.5	.7	.0	.0		10.1	9.4	11.7	6.0	10.6	10.9
NW	1.0	.9	*	.0	.0		1.9	7.1	2.4	2.5	1.6	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	3.0	3.5	1.3	2.2
TOT OBS	713	1862	251	0	0	2828		9.7	877	850	821	580
TOT PCT	25.3	65.8	8.9	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975

JULY

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.0	5.8	55.2	35.0	1.0	.0	.0	9.5	100.0	877
06009	3.5	6.2	53.3	35.3	1.8	.0	.0	9.7	100.0	550
12015	1.3	4.0	58.3	35.1	1.2	.0	.0	9.8	100.0	821
18021	2.2	4.1	57.6	35.0	1.0	.0	.0	9.8	100.0	580
TOT	69	142	1590	992	35	0	0	9.7		2828
PCT	2.4	5.0	56.2	35.1	1.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSD	TOTAL DBS	MEAN CLOUD COVER
N	.0	.0	.1	.3		7.7
NE	.2	.0	*	*		1.9
E	.2	.1	.1	.3		5.4
SE	2.2	2.0	2.2	2.7		4.8
S	12.8	9.5	15.2	17.6		5.0
SW	3.3	3.1	8.5	13.0		6.1
W	.6	.5	1.2	1.6		5.7
NW	.0	.0	.1	.9		7.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.6	.7		5.5
TOT DBS	175	137	250	332		894
TOT PCT	19.6	15.3	28.0	37.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF THE 1500 AND 2000+ INCHES											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.1	.2	.0	.1	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4
*	.0	.0	.4	1.7	1.1	.3	.0	.1	.1	5.5	
.1	.0	.7	4.8	12.3	6.9	2.0	.2	.1	.2	27.7	
.2	.0	.1	2.1	6.3	5.3	1.0	.3	.0	.8	11.8	
.0	.1	.0	.4	1.3	.5	.1	.0	.1	.0	1.3	
.1	.0	.1	.1	.2	.5	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.2	.0	.2	.2	.0	.0	.1	.1	.8	
.4	1	10	70	200	131	30	6	4	11	427	894
.4	.1	1.1	7.8	22.4	14.7	3.4	.7	.4	1.2	47.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	1.4	2.2	2.3	2.3	2.3	2.3	2.3	2.3
* OR >3500	3.5	5.3	5.6	5.6	5.6	5.6	5.6	5.6
* OR >2000	14.4	19.6	20.1	20.1	20.1	20.1	20.1	20.1
* OR >1000	30.9	40.8	42.1	42.3	42.3	42.3	42.3	42.3
* OR >600	37.0	48.0	50.1	50.3	50.3	50.3	50.3	50.3
* OR >300	37.7	48.7	51.2	51.4	51.4	51.4	51.4	51.4
* OR >150	37.7	48.7	51.2	51.5	51.5	51.5	51.5	51.5
* OR >0	37.7	49.1	51.5	51.8	51.8	51.9	51.9	51.9
TOTAL	342	445	467	470	470	471	471	471

TOTAL NUMBER OF OBS: 907

PCT FREQ NH <5/8: 48.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
10.0	7.7	9.8	11.3	9.3	7.1	10.7	6.6	27.2	.4	976

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975

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1.7N 6.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	*	.1	.1	.1	.0	.0	.0	.3	
	TOT %	.0	.1	.0	*	.1	.1	.1	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2
	TOT %	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.3	
1<2	PCP	.0	*	.1	.0	.1	*	.1	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	*	.1	.0	.1	*	.1	.0	.0	.0	.3	
2<5	PCP	.0	.0	.0	.1	.2	.1	.0	.1	.0	.0	.5	
	NO PCP	.1	*	.1	*	1.1	.3	.2	.0	.0	.1	1.9	
	TOT %	.1	*	.1	.1	1.4	.3	.2	.1	.0	.1	2.4	
5<10	PCP	*	*	.0	.2	1.0	1.9	.9	.5	.0	.0	4.6	
	NO PCP	.1	.2	.0	1.8	8.7	8.8	3.0	.6	.0	2.2	25.4	
	TOT %	.2	.2	.0	1.9	9.8	10.7	3.9	1.2	.0	2.2	30.0	
10+	PCP	.0	.0	.0	.0	.3	.4	.1	.2	.0	.0	.9	
	NO PCP	.1	*	.5	6.6	37.6	18.1	2.2	.2	.0	.3	65.7	
	TOT %	.1	*	.5	6.6	37.9	18.5	2.3	.3	.0	.3	66.6	
TOT OBS													1215
TOT PCT		.4	.3	.7	8.7	49.2	29.8	6.6	1.6	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	*	*	*	*	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.1	.0	*	*	.1	.1	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.1	*	.0	.0		.1	
	11-21	.0	.0	.0	*	.1	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	*	.1	.1	*	.0	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.1	*	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.1	.1	.2	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.1	.1	.2	.0	.0	.0	.5	
2<5	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.1	*	.0	.1	.5	.7	.2	.1	.0		1.6	
	11-21	.0	.0	*	*	.6	.2	.1	.1	.0		1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.1	.1	1.2	.9	.3	.1	.0	.1	3.0	
5<10	0-3	*	.2	.0	.1	.3	.2	.1	*	.0	1.7	2.7	
	4-10	.1	.1	.1	1.0	4.5	5.5	2.0	.7	.0		14.0	
	11-21	*	.0	.0	.3	4.0	5.5	1.4	.1	.0		11.3	
	22+	.0	.0	.0	.0	.2	.3	.0	.0	.0		.5	
	TOT %	.1	.2	.1	1.5	8.9	11.6	3.5	.8	.0	1.7	28.5	
10+	0-3	.0	.0	.1	.5	1.6	.8	.2	.0	.0	.3	3.7	
	4-10	.1	.1	.3	3.3	19.9	13.5	2.2	.3	.0		39.8	
	11-21	.0	.0	.1	1.5	11.5	8.3	1.9	.2	.0		23.4	
	22+	.0	.0	.0	.0	.3	.3	.0	.0	.0		.6	
	TOT %	.1	.1	.5	5.3	33.4	22.9	4.3	.5	.0	.3	67.5	
TOT OBS													1724
TOT PCT		.4	.4	.7	6.0	43.8	35.6	8.4	1.5	.0	2.2	100.0	

JULY

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975AREA 0013 GULF OF GUINEA EAST
1.7N 6.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.9	.0	.0	8.5	19.8	12.7	1.4	.5	.9	1.4	46.2	53.8	212
06009	.8	.0	1.7	10.5	24.4	16.8	5.0	.8	.4	.8	61.3	38.7	238
12015	.0	.4	1.2	5.8	19.0	11.6	1.7	.0	.0	.0	39.7	60.3	242
18021	.0	.0	1.2	6.0	22.5	14.5	4.4	1.2	.4	2.4	52.6	47.4	249
TOT	4	1	10	72	202	131	30	6	4	11	471	470	941
PCT	.4	.1	1.1	7.7	21.5	13.9	3.2	.6	.4	1.2	50.1	49.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.2	.0	2.7	30.7	66.4	479
06009	.5	.3	.5	2.6	27.6	68.5	387
12015	.4	.6	1.2	3.1	29.4	65.3	490
18021	.0	.0	.3	3.3	26.9	69.5	394
TOT	4	5	9	51	504	1177	1750
PCT	.2	.3	.5	2.9	28.8	67.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.0	1.0	10.7	37.1	52.2	205
06009	.9	2.6	15.4	49.3	35.2	227
12015	.0	1.7	9.8	31.5	58.7	235
18021	.0	1.3	9.6	45.0	45.4	240
TOT	4	15	103	370	434	907
PCT	.4	1.7	11.4	40.8	47.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
85/89	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
80/84	.0	.0	.0	.0	.6	4.7	3.4	.3	94	9.0
75/79	.0	.0	.0	.0	.9	15.0	26.7	8.8	537	51.4
70/74	.0	.0	.0	.1	.2	4.9	20.8	11.8	394	37.7
65/69	.0	.0	.0	.0	.0	.0	.4	1.1	16	1.5
TOTAL	0	0	0	2	17	259	536	230	1044	100.0
PCT	.0	.0	.0	.2	1.6	24.8	51.3	22.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	*	.1	.0	.0	.0
85/89	.0	.0	.0	.0	.2	*	.0	.0	.0	.0
80/84	.1	*	.0	.4	3.2	3.9	1.0	.1	.0	.2
75/79	.2	.1	.2	2.4	23.9	18.1	4.3	1.2	.0	1.0
70/74	*	.2	.4	6.3	23.5	5.2	.5	*	.0	1.5
65/69	.0	.0	.1	.1	.9	.1	.0	.0	.0	.4
TOT	.4	.4	.6	9.2	51.7	27.3	5.8	1.4	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	80	79	76	70	68	64	75.4	879
06009	89	81	80	76	70	66	61	75.6	550
12015	90	85	82	78	72	68	66	77.2	827
18021	85	82	80	76	71	68	61	75.9	579
TOT	93	83	81	77	70	68	61	76.1	2835

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.4	15.8	53.2	30.6	86	278
06009	.0	.0	1.2	18.2	56.6	24.0	85	242
12015	.0	.7	3.8	35.7	45.8	14.0	81	286
18021	.0	.0	1.2	27.9	51.2	19.8	84	258
TOT	0	2	18	262	548	234	84	1064

JULY

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975

TABLE 17

AREA 0013 GULF OF GUINEA EAST
1.7N 6.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WU FOG
11/13	.0	.0	.0	.0	.2	.0	.0	.0	2	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	.1	2	.0	.2
7/8	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
6	.0	.0	.0	.2	.3	.0	.0	.0	5	.0	.4
5	.0	.0	.2	.4	.3	.2	.0	.1	12	.0	1.1
4	.0	.0	.1	.8	.4	.4	.0	.0	19	.0	1.7
3	.0	.0	.3	1.2	.7	.3	.1	.0	29	.0	2.6
2	.0	.0	.4	1.7	1.8	.5	.0	.0	49	.0	4.3
1	.0	.1	2.6	3.5	2.3	.9	.0	.0	106	.0	9.3
0	.0	.0	4.9	5.6	4.7	1.1	.1	.0	185	.2	16.1
-1	.0	.0	3.5	6.2	9.1	.6	.0	.0	220	.3	19.1
-2	.0	.1	1.5	6.4	8.5	.5	.1	.0	195	.0	17.2
-3	.0	.0	.9	4.8	4.6	.3	.0	.0	119	.1	10.4
-4	.0	.0	.7	3.3	2.6	.0	.0	.0	76	.0	6.7
-5	.1	.1	.7	3.6	1.0	.0	.0	.0	62	.1	5.4
-6	.0	.0	.2	.9	.4	.0	.0	.0	16	.0	1.4
-7/-8	.0	.4	.3	1.4	.4	.0	.0	.0	28	.1	2.4
-9/-10	.0	.0	.0	.4	.1	.0	.0	.0	5	.0	.4
-11/-13	.0	.0	.3	.0	.1	.0	.0	.0	4	.0	.4
TOTAL	1	8	186	457	54	4	2	1135	100.0	.7	99.3
PCT	.1	.7	16.4	40.3	37.3	4.8	.4	.2			

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.5	.0	.0	.0	.0	.6
1-2	.0	.6	.0	.0	.0	.0	.6	.3	4.2	.9	.0	.0	.0	5.4
3-4	.1	.0	.0	.0	.0	.0	.1	.0	.8	.6	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.0	.0	.0	.0	.9	.4	5.5	2.2	.0	.0	.0	8.1

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0013 GULF OF GUINEA EAST
1.7N 6.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	3.8	.2	.0	.0	.0		4.9	.8	1.6	.2	.0	.0	.0		2.6
1-2	1.1	19.0	5.3	.0	.0	.0		25.4	.3	10.9	3.8	.0	.0	.0		14.9
3-4	.0	7.2	9.0	.4	.0	.0		16.6	.0	4.8	4.8	.2	.0	.0		9.7
5-6	.0	1.5	4.0	.0	.0	.0		5.5	.0	.6	1.8	.1	.0	.0		2.6
7	.0	.3	1.8	.1	.0	.0		2.2	.0	.0	.3	.0	.0	.0		.3
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.0	31.9	20.3	.5	.0	.0		54.7	1.1	17.9	11.0	.3	.0	.0		30.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
1-2	.1	1.2	.4	.0	.0	.0		1.6	.0	.3	.0	.0	.0	.0		.3	
3-4	.0	.4	.9	.0	.0	.0		1.4	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.1	.0	.0	.0		.1	.0	.0	.1	.0	.0	.0		.1	
7	.0	.0	.3	.0	.0	.0		.3	.0	.0	.1	.0	.0	.0		.1	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	1.9	1.7	.0	.0	.0		3.8	.0	.3	.3	.0	.0	.0		.6	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	6.4	.4	.0	.0	.0	10.6	
1-2	2.0	36.0	10.2	.0	.0	.0	48.2	
3-4	.1	13.2	15.2	.6	.0	.0	29.0	
5-6	.0	2.1	6.5	.1	.0	.0	8.8	
7	.0	.3	2.7	.1	.0	.0	3.1	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	58.1	35.1	.8	.0	.0	100.0	706

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.2	19.0	18.8	4.7	.7	.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	409	3
6-7	.0	1.5	11.3	8.3	3.1	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	4
8-9	.0	.0	2.7	3.2	1.0	.1	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	5
10-11	.0	1.7	2.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	3
12-13	.0	.0	.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.5	3.6	4.4	2.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	3
TOTAL	50	223	341	178	50	12	5	0	2	3	0	0	0	0	0	0	0	0	0	0	864	3
PCT	5.8	25.8	39.5	20.6	5.8	1.4	.6	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975AREA 0013 GULF OF GUINEA EAST
1.7N 6.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	26.7	.0	.0	.0	.0	.0	73.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	29.6	.0	.0	.0	.0	.0	29.6	.0	.0	11.1	.0	.0	.0	59.3
SE	.0	.0	4.3	.0	.0	.0	.0	4.3	6.1	.0	.4	.0	1.4	.0	87.8
S	.8	.3	.6	.0	.0	.0	.1	1.8	2.2	.0	.2	.0	.1	.1	95.5
SW	2.0	1.8	.7	.0	.0	.0	.1	4.6	3.4	.0	.0	.0	.5	*	91.4
W	7.0	.0	.9	.0	.0	.0	.0	7.9	3.0	.0	.0	.0	.7	.0	88.4
NW	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	97.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	12.5	.0	.0	.0	81.3
TOT	PCT	1.8	1.1	.9	.0	.0	.0	.1	3.8	3.1	.0	.3	.0	.4	92.3
TOT	OBS:	1223													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG W/ PCPN	FGG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000	2.5	.6		.0	.0	.0	.0	3.8	3.2	.0	.3	.0	.3	.0		92.4
0600	1.7	1.4	2.1	.0	.0	.0	.0	4.8	4.1	.0	.3	.0	.3	.0		90.4
1200	1.4	2.0	.3	.0	.0	.0	.3	4.0	2.0	.0	.0	.0	.3	.0		93.7
1800	1.7	.0	.7	.0	.0	.0	.0	2.4	3.1	.0	.7	.0	.7	.3		92.7
TOT PCT TOT OBS:	1.8 1244	1.0	.9	.0	.0	.0	.1	3.8	3.1	.0	.3	.0	.4	.1		92.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	.2	*	.0	.0	.0	.4	4.2	.2	.6	.9	.4	.7	.4	.0	.0	.0	
NE	.0	.1	*	.0	.0	.0	.1	8.6	.0	.0	.3	.0	.4	.0	.0	.0	.0	
E	.3	.2	.1	.0	.0	.0	.6	5.1	.6	.5	.6	1.3	.7	.0	.3	.5	.5	
SE	.4	2.7	1.0	.0	.0	.0	4.1	8.0	4.5	3.9	6.2	4.0	5.4	2.5	3.1	1.6	1.6	
S	1.7	20.5	9.8	.3	.0	.0	32.3	9.3	30.5	29.7	43.4	28.7	35.9	29.3	31.3	26.6	47.7	
SW	1.2	24.5	19.0	.7	.0	.0	45.5	10.6	45.8	47.6	37.2	46.9	42.2	48.1	50.2	47.7	22.0	
W	.9	7.8	5.3	.2	.0	.0	14.2	9.9	15.2	16.1	9.1	15.9	12.1	14.9	11.7	7.7	22.0	
NW	.1	.9	.6	*	.0	.0	1.6	9.6	1.5	1.0	1.6	1.7	1.5	3.4	1.6	.7	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2						1.2	.0	1.7	.6	.7	.9	1.0	1.4	1.8	.9	.9	
TOT OBS	160	1519	958	34	0	0	2671		9.8	524	311	286	229	487	283	336	215	
TOT PCT	6.0	56.9	35.9	1.3	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	.4	*	.0	.0	.0	.0	.4	4.2	.3	.7	.6	.0	.0
NE	.1	*	.0	.0	.0	.0	.1	8.6	.0	.2	.3	.0	.0
E	.4	.2	.0	.0	.0	.0	.6	5.1	.5	.9	.5	.4	.4
SE	1.9	2.1	.1	.0	.0	.0	4.1	8.0	4.3	5.2	4.4	2.5	2.5
S	8.9	21.8	1.5	*	.0	.0	32.3	9.3	30.2	36.9	33.5	29.5	29.5
SW	7.4	33.9	4.2	.1	.0	.0	45.5	10.6	46.5	41.5	44.4	49.2	49.2
W	3.6	9.2	1.4	.0	.0	.0	14.2	9.9	15.5	12.1	13.1	15.7	15.7
NW	.6	.8	.2	.0	.0	.0	1.6	9.6	1.3	1.7	2.2	1.3	1.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.3	.8	1.2	1.5	1.5
TOT OBS	653	1818	198	2	0	2671		9.8	835	515	770	551	551
TOT PCT	24.4	68.1	7.4	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975AREA 0013 GULF OF GUINEA EAST
1.7N 6.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.3	4.7	57.7	34.7	1.6	.0	.0	.0	9.7	100.0	835
06009	.8	3.9	56.5	37.9	1.0	.0	.0	.0	9.8	100.0	515
12015	1.2	6.2	54.7	36.6	1.3	.0	.0	.0	9.8	100.0	770
18021	1.5	3.8	59.0	34.7	1.1	.0	.0	.0	9.7	100.0	551
TOT	32	128	1519	958	34	0	0	0	9.8		2671
PCT	1.2	4.8	56.9	35.9	1.3	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.1	.1		7.1
NE	.0	.0	.1	.2		7.0
E	.0	.0	.1	.3		7.7
SE	1.7	.7	2.2	2.1		5.1
S	7.4	5.6	14.9	16.6		5.6
SW	4.9	5.4	14.8	14.1		5.9
W	1.1	.8	2.5	2.5		5.7
NW	.0	.0	.5	*		6.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.1	.5		5.0
TOT OBS	136	111	310	320	877	5.7
TOT PCT	15.5	12.7	35.3	36.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1
E	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0
SE	*	.0	.0	.3	1.6	1.0	.4	.1	.1	.0	.0	3.2
S	.0	.0	.1	4.0	8.4	5.5	2.9	.6	.6	.4	.0	21.9
SW	.1	.0	.2	4.2	7.6	6.4	2.2	.5	.1	.3	.0	17.3
W	.0	.0	.0	.8	1.3	1.1	.4	.0	.0	.0	.0	3.4
NW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.7
TOT OBS	2	0	3	83	171	132	52	11	7	6	410	877
TOT PCT	.2	.0	.3	9.5	19.5	15.1	5.9	1.3	.8	.7	46.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)				VSBY (NH)				VSBY (NH)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
>6500	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	2.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>3500	6.9	8.2	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
>2000	18.7	22.9	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
>1000	35.2	41.9	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
>600	42.8	51.2	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
>300	42.8	51.5	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
>150	42.8	51.5	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
>0	42.8	51.6	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
TOTAL	377	455	470	470	471	471	471	471	471	471	471	471

TOTAL NUMBER OF OBS: 881

PCT FREQ NH <5/8: 46.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
6.2	5.9	11.3	11.8	10.3	7.7	10.7	9.7	26.3	.1	918

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975

AUGUST

AREA 0013 GULF OF GUINEA EAST
1.7N 6.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.2	.1	.4	.1	*	.0	.0	.7	
	NO PCP	.0	.0	.0	.2	.1	.2	.1	*	.0	.2	.8	
	TOT %	.0	.0	.0	.3	.2	.6	.2	*	.0	.2	1.6	
5<10	PCP	.0	.0	.1	.0	.4	1.5	.2	.0	.0	.0	2.1	
	NO PCP	.2	.1	.1	.8	7.7	11.6	3.5	.6	.0	.5	25.2	
	TOT %	.2	.1	.2	.8	8.1	13.1	3.6	.6	.0	.5	27.3	
10+	PCP	.0	.0	.1	.0	.1	*	.4	.0	.0	.0	.7	
	NO PCP	.1	.2	.2	4.4	32.4	27.3	4.5	.2	.0	.7	70.0	
	TOT %	.1	.2	.3	4.4	32.5	27.4	4.9	.2	.0	.7	70.6	
TOT OBS		.3	.2	.6	5.7	41.0	41.2	8.8	.9	.0	1.3	100.0	1222
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.1	.1	.0	.1	*	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.4	
	4-10	.0	.0	.0	.1	.5	.5	.3	*	.0	.0	1.5	
	11-21	.0	.0	.0	.1	.2	.9	.3	.1	.0	.0	1.5	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	.0	.0	.0	.3	.7	1.5	.6	.1	.0	.1	3.4	
5<10	0-3	.1	.0	.1	.3	.7	.9	.8	*	.0	.5	3.6	
	4-10	*	.0	.0	.3	4.5	7.5	2.1	.5	.0	.0	15.0	
	11-21	.0	.1	.0	.1	2.1	4.3	1.1	.3	.0	.0	7.9	
	22+	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	
	TOT %	.2	.1	.1	.7	7.4	12.8	4.1	.8	.0	.5	26.6	
10+	0-3	.0	.0	.2	.1	1.3	.5	.4	.0	.0	.7	3.2	
	4-10	.1	.1	.0	2.3	17.6	15.5	4.7	.2	.0	.0	40.5	
	11-21	.0	.0	.1	1.0	7.6	12.5	3.4	.1	.0	.0	24.8	
	22+	.0	.0	.0	.0	.1	.4	.1	.0	.0	.0	.6	
	TOT %	.1	.1	.3	3.4	26.6	28.9	8.7	.4	.0	.7	69.1	
TOT OBS		.2	.2	.5	4.5	34.9	43.4	13.6	1.3	.0	1.3	100.0	1689
TOT PCT													

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1855-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	9.1	17.8	14.2	8.1	.0	.0	1.0	50.3	49.7	197
06009	.4	.0	.4	12.2	24.5	18.8	8.7	1.7	.0	.9	67.7	32.3	229
12015	.4	.0	.8	8.7	16.6	12.4	2.9	2.5	2.1	.4	46.9	53.1	241
18021	.0	.0	.0	7.2	19.3	14.8	4.0	.4	.9	.4	47.1	52.9	223
TOT	2	0	3	83	174	134	52	11	7	6	472	418	890
PCT	.2	.0	.3	9.3	19.6	15.1	5.8	1.2	.8	.7	53.0	47.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.2	.6	3.9	27.8	67.2	467
06009	.0	.8	.5	3.2	25.5	70.0	377
12015	.0	.2	.2	4.5	29.1	66.0	485
18021	.0	.0	.5	1.6	25.7	72.2	381
TOT	1	5	8	58	465	1173	1710
PCT	.1	.3	.5	3.4	27.2	68.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	12.2	38.3	49.5	196
06009	.4	.9	14.9	53.1	32.0	228
12015	.4	1.3	12.3	35.7	51.9	235
18021	.0	.0	7.2	40.1	52.7	222
TOT	2	5	103	369	409	881
PCT	.2	.6	11.7	41.9	46.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
80/84	.0	.0	.0	.0	.5	2.9	1.6	.2	49	5.2
75/79	.0	.0	.0	.0	1.9	14.2	32.3	8.0	529	56.3
70/74	.0	.0	.0	.0	.3	4.8	22.0	10.6	355	37.8
65/69	.0	.0	.0	.0	.0	.0	.3	.1	4	.4
TOTAL	0	0	0	0	27	206	528	178	939	100.0
PCT	.0	.0	.0	.0	2.9	21.9	56.2	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	*	.2	*	.0	.0	.0	.0
80/84	.0	.0	.0	.3	.9	2.7	1.0	.0	.0	.3
75/79	.0	.2	.3	1.5	19.1	29.1	5.6	.3	.0	.3
70/74	.0	.0	.1	3.9	23.7	8.4	.6	*	.0	1.0
65/69	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0
TOT	.0	.2	.5	6.1	43.9	40.2	7.2	.3	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	79	78	75	70	68	66	74.9	834
06009	86	81	79	75	70	69	65	75.1	519
12015	86	83	82	77	73	70	66	76.8	771
18021	82	80	79	76	72	70	68	75.5	552
TOT	86	82	80	76	71	68	65	75.6	2676

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.8	13.5	62.9	22.9	85	245
06009	.0	.0	.9	16.3	56.8	26.0	85	227
12015	.0	.0	7.1	34.5	46.3	12.2	81	255
18021	.0	.0	2.2	21.4	59.8	16.5	84	224
TOT	0	0	27	206	535	183	84	951

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1853-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.2	.0	2	.0	.2
7/8	.0	.0	.2	.1	.0	.1	4	.0	.4
6	.0	.1	.1	.2	.1	.0	5	.0	.5
5	.0	.1	.1	.5	.1	.0	8	.0	.7
4	.1	.3	.5	1.0	.4	.1	25	.0	2.3
3	.0	.2	.8	1.1	.5	.0	28	.0	2.6
2	.0	.4	2.0	1.9	.2	.0	49	.0	4.5
1	.0	1.1	3.3	4.3	.2	.1	98	.0	9.0
0	.0	4.0	6.6	9.7	.3	.0	224	.3	20.3
-1	.0	2.0	11.4	7.9	.4	.0	236	.0	21.7
-2	.1	1.1	9.4	4.0	.1	.0	160	.0	14.7
-3	.0	1.7	7.2	1.4	.2	.0	113	.0	10.4
-4	.0	.8	5.1	.7	.0	.0	73	.0	6.7
-5	.0	.9	2.4	.8	.0	.0	45	.0	4.1
-6	.0	.4	.6	.1	.0	.0	12	.0	1.1
-7/-8	.0	.1	.4	.1	.0	.0	6	.0	.6
TOTAL	2	142	545	369	27	3	1088	3	1085
PCT	.2	13.1	50.1	33.9	2.5	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.0	.3	.1	.0	.0	.0	.0	.0	.4

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.8	1.1	.0	.0	.0	.0	4.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	1.0
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.3	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.1	.0	.0	.0	.4	.0	.4	4.4	1.9	.0	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1975

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.9	.0	.0	.0	.0	3.5	.3	1.8	.0	.0	.0	.0	2.1
1-2	.6	17.5	5.5	.0	.0	.0	23.6	.3	12.3	5.7	.0	.0	.0	18.2
3-4	.0	5.7	5.8	.0	.0	.0	11.5	.0	6.6	8.7	.1	.0	.0	15.4
5-6	.0	.9	2.2	.0	.0	.0	3.1	.0	.5	3.4	.3	.0	.0	4.3
7	.0	.0	.1	.0	.0	.0	.1	.0	.3	1.2	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	27.1	13.7	.0	.0	.0	41.9	.5	21.5	19.5	.4	.0	.0	42.0

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	99.0
1-2	.1	2.2	1.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	
3-4	.1	.8	1.8	.0	.0	.0	2.7	.0	*	.1	.0	.0	.0	.2	
5-6	.0	.1	.5	.0	.0	.0	.6	.0	.0	*	.0	.0	.0	*	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.4	3.3	.1	.0	.0	7.0	.0	*	.3	.0	.0	.0	.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	6.0	.1	.0	.0	.0	8.5	686
1-2	1.5	35.0	13.3	.0	.0	.0	49.7	
3-4	.1	13.7	16.8	.1	.0	.0	30.8	
5-6	.0	1.7	6.6	.3	.0	.0	8.6	
7	.0	.3	1.5	.1	.0	.0	1.9	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	56.7	38.8	.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	20.2	13.5	5.5	.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	385	3
6-7	.0	.6	6.2	8.2	2.0	1.1	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	5
8-9	.0	.8	2.7	3.5	2.1	1.1	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
10-11	.0	1.1	1.2	1.5	.7	.5	.5	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
12-13	.0	.0	1.2	.4	.2	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
>13	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	2.3	3.5	5.0	2.9	.7	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	3
TOTAL	63	223	254	188	58	27	26	8	5	1	0	0	0	0	0	0	0	0	0	853	4
PCT	7.4	26.1	29.8	22.0	6.8	3.2	3.0	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1867-1975AREA 0013 GULF OF GUINEA EAST
1.8N 6.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	26.7	.0	.0	.0	.0	.0	26.7	.0	.0	.0	.0	.0	.0	73.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
SE	.7	1.4	2.9	.0	.0	.0	.0	5.1	2.9	.0	.0	.0	.0	.0	92.0
S	2.0	3.3	1.4	.0	.0	.0	.0	6.7	1.4	1.0	.0	.0	.0	.0	90.8
SW	5.1	3.4	1.9	.0	.0	.0	.0	10.2	4.4	.7	.2	.0	.0	.0	84.7
W	11.2	3.7	2.3	.0	.0	.0	.0	17.2	4.3	.0	.0	.0	.9	.0	77.6
NW	16.4	5.5	2.7	.0	.0	.0	.0	24.7	6.8	5.5	.0	.0	.0	.0	63.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	87.5
TOT PCT	4.5	3.4	1.7	.0	.0	.0	.0	9.6	3.2	.8	.1	.0	.1	.0	86.3
TOT OBS:	1089														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.6	3.7	2.6	.0	.0	.0	.0	8.6	1.9	1.1	.4	.0	.0	.0	88.1
0600	5.2	5.2	2.2	.0	.0	.0	.0	12.6	4.5	.4	.0	.0	.0	.0	82.9
1200	8.4	3.2	.3	.0	.0	.0	.0	12.0	2.3	.3	.0	.0	.0	.0	85.4
1800	3.3	1.9	1.9	.0	.0	.0	.0	7.0	4.1	1.5	.0	.0	.4	.0	87.0
TOT PCT	5.0	3.5	1.7	.0	.0	.0	.0	10.1	3.1	.8	.1	.0	.1	.0	85.9
TOT OBS:	1117														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.2	.1	.0	.0	.0		.3	8.2	.2	.2	.3	.0	.7	.0	.4	.2	
NE	.1	.3	.1	.0	.0	.0		.5	7.1	.5	.3	1.4	.9	.1	.3	.3	.4	
E	.1	.6	.1	.0	.0	.0		.8	6.8	.6	.6	.6	.0	1.4	1.0	.8	1.1	
SE	.2	1.9	.5	.0	.0	.0		2.7	8.4	2.8	1.0	2.9	.9	2.5	4.1	4.4	2.7	
S	1.7	17.3	8.9	.3	.0	.0		28.1	9.3	28.9	23.2	34.6	26.3	31.6	24.3	30.0	23.1	
SW	1.5	30.3	15.7	.4	.0	.0		48.0	9.7	47.6	52.9	44.8	46.9	43.7	48.4	49.2	52.9	
W	.8	9.9	5.4	.0	.0	.0		16.2	9.1	16.4	17.8	11.7	21.5	16.5	18.9	11.7	15.3	
NW	.2	1.6	.8	.0	.0	.0		2.6	8.6	1.9	2.8	1.8	3.1	2.9	2.7	2.5	3.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.0	.0	.0		.9	.0	1.2	1.2	1.7	.4	.6	.3	.6	.4	
TOT OBS	148	1667	847	19	0	0	2681		9.3	513	332	286	227	469	312	309	233	
TOT PCT	5.5	62.2	31.6	.7	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.1	.2	.0	.0	.0		.3	8.2	.2	.2	.4	.3
NE	.2	.2	.0	.0	.0		.5	7.1	.4	1.2	.2	.4
E	.5	.2	.1	.0	.0		.8	6.8	.6	.3	1.2	.9
SE	1.1	1.4	.1	.0	.0		2.7	8.4	2.1	2.0	3.1	3.6
S	8.0	18.7	1.3	.1	.0		28.1	9.3	26.7	30.9	28.6	27.0
SW	10.4	34.8	2.7	.0	.0		48.0	9.7	49.7	45.8	45.6	50.8
W	4.9	10.7	.6	.0	.0		16.2	9.1	17.0	16.0	17.5	13.3
NW	1.0	1.6	.1	.0	.0		2.6	8.6	2.2	2.4	2.8	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0		.9	.0	1.2	1.2	.5	.6
TOT OBS	727	1819	131	4	0	2681		9.3	845	513	781	542
TOT PCT	27.1	67.8	4.9	.1	.0	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1867-1975

SEPTEMBER

AREA 0013 GULF OF GUINEA EAST
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.2	4.5	61.1	32.8	.5	.0	.0	.0	9.3	845
0600	1.2	5.3	62.4	30.2	1.0	.0	.0	.0	9.3	513
1200	.5	5.2	63.9	30.0	.4	.0	.0	.0	9.1	781
1800	.6	3.5	61.3	33.4	1.3	.0	.0	.0	9.6	542
TOT	23	125	1667	847	19	0	0	9.3		2681
PCT	.9	4.7	62.2	31.6	.7	.0	.0	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS<0	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.2		8.0
NE	.1	.3	.1	.1		4.4
E	.0	.0	.1	.1		7.4
SE	.4	.6	1.6	1.1		5.9
S	4.3	5.2	17.0	17.0		6.1
SW	3.5	5.5	17.2	15.1		6.1
W	.3	1.5	4.1	2.7		6.1
NW	.1	.4	.2	.2		4.4
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.5	.3		5.8
TOT OBS	69	106	318	287	780	6.1
TOT PCT	8.8	13.6	40.8	36.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
NE	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	
E	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	
SE	.0	.0	.1	.4	.8	.4	.1	.3	.0	*	1.6	
S	.0	.1	.7	5.7	12.0	6.6	1.1	.4	.0	.6	16.3	
SW	.0	.2	.5	5.1	12.0	4.5	2.1	.3	.0	.3	16.5	
W	.0	.3	.2	1.2	2.6	.7	.8	.0	.0	.0	3.0	
NW	.0	.0	.0	.0	.2	*	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
TOT OBS	0	4	12	98	219	96	32	7	0	7	305	780
TOT PCT	.0	.5	1.5	12.6	28.1	12.3	4.1	.9	.0	.9	39.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >3500	5.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
= OR >2000	16.4	18.8	18.8	18.8	18.8	18.8	18.8	18.8
= OR >1000	41.3	46.4	46.8	46.8	46.8	46.8	46.8	46.8
= OR >600	52.2	58.1	59.2	59.2	59.2	59.2	59.2	59.2
= OR >300	53.2	59.5	60.7	60.7	60.7	60.7	60.7	60.7
= OR >150	53.6	60.0	61.2	61.2	61.2	61.2	61.2	61.2
= OR >0	53.6	60.0	61.2	61.2	61.2	61.2	61.2	61.2
TOTAL	422	472	482	482	482	482	482	482

TOTAL NUMBER OF OBS: 787

PCT FREQ NH <5/8: 38.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS<0	TOTAL OBS
2.5	6.2	7.2	10.8	11.5	9.5	12.2	12.8	27.3	.0	825

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1867-1975

SEPTEMBER

AREA 0013 GULF OF GUINEA EAST
1.8N 6.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.1	.0	.1	*	.0	.0	.3	
2<5	PCP	.0	.0	.0	.0	.2	.6	.2	*	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.0	.3	.9	.2	*	.0	.0	1.4	
5<10	PCP	.1	.0	.1	.2	1.4	2.9	1.3	.4	.0	.0	6.3	
	NO PCP	.2	.1	.0	.3	4.8	9.7	2.3	.6	.0	.0	17.9	
	TOT %	.3	.1	.1	.4	6.2	12.6	3.6	1.0	.0	.0	24.3	
10+	PCP	.0	.0	.0	.0	.7	.7	.2	.0	.0	.0	1.7	
	NO PCP	.1	.4	.1	2.7	32.3	29.0	5.9	.6	.0	.7	71.9	
	TOT %	.1	.4	.1	2.7	33.0	29.7	6.1	.6	.0	.7	73.5	
TOT OBS													1088
TOT PCT		.3	.5	.2	3.2	39.8	43.5	10.0	1.7	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.4	.2	.1	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.1	.1	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.6	.3	.1	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.1	.1	.4	1.3	.4	.1	.0	.0	2.5	
	11-21	.0	.1	.0	.0	*	.4	.1	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.1	.1	.5	1.7	.6	.2	.0	.0	3.1	
5<10	0-3	*	*	*	.1	.8	.7	.4	.1	.0	.0	2.2	
	4-10	.1	.1	.1	.2	2.6	7.7	2.6	.4	.0	.0	13.8	
	11-21	.1	.0	.0	*	1.7	4.1	1.5	.6	.0	.0	8.0	
	22+	.0	.0	.0	.0	*	.2	.1	.0	.0	.0	.3	
	TOT %	.2	.1	.1	.3	5.2	12.6	4.6	1.2	.0	.0	24.2	
10+	0-3	.0	.1	.1	.1	.7	.7	.4	.1	.0	.9	3.0	
	4-10	.0	.2	.1	1.5	14.5	19.4	6.5	.8	.0	.0	43.1	
	11-21	*	.1	.0	.6	8.4	11.7	3.3	.4	.0	.0	24.6	
	22+	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6	
	TOT %	*	.4	.2	2.2	23.9	32.2	10.2	1.3	.0	.9	71.3	
TOT OBS													1709
TOT PCT		.3	.5	.4	2.5	29.8	47.2	15.7	2.7	.0	.9	100.0	

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PERIOD: (PRIMARY) 1911-1975
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1.8N 6.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.4	12.9	22.9	15.3	5.3	.6	.0	3.5	62.9	37.1	170
06009	.0	.5	1.4	15.2	36.4	9.2	6.5	.9	.0	.9	71.0	29.0	217
12015	.0	1.0	1.0	8.4	26.1	10.3	3.4	1.0	.0	.0	51.2	48.8	203
18021	.0	.5	1.4	12.5	23.6	14.9	2.9	1.0	.0	.0	56.7	43.3	208
TOT	0	4	12	98	220	98	36	7	0	8	483	315	798
PCT	.0	.5	1.5	12.3	27.6	12.3	4.5	.9	.0	1.0	60.5	39.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.0	4.4	26.1	69.1	502
06009	.0	.5	.8	3.8	22.9	71.9	367
12015	.0	.4	2.1	2.3	28.2	67.0	482
18021	.0	.3	1.0	1.6	21.2	75.9	386
TOT	0	7	17	53	433	1227	1737
PCT	.0	.4	1.0	3.1	24.9	70.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 3+	TOTAL OBS
00003	.0	2.4	15.8	49.1	35.2	165
06009	.0	1.9	17.7	54.0	28.4	215
12015	.0	2.0	10.8	40.4	48.8	203
18021	.0	2.0	15.2	42.2	42.6	204
TOT	0	16	117	365	305	787
PCT	.0	2.0	14.9	46.4	38.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
85/89	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
80/84	.0	.0	.0	.0	.4	3.5	2.1	.5	53	6.4
75/79	.0	.0	.0	.0	.4	12.2	44.1	10.8	557	67.5
70/74	.0	.0	.0	.0	.4	2.8	17.0	5.7	213	25.8
TOTAL	0	0	0	0	9	155	521	140	825	100.0
PCT	.0	.0	.0	.0	1.1	18.8	63.2	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.1	.1	.3	1.8	2.6	1.3	.0	.0	.2
.2	.2	.1	2.0	27.5	29.4	7.1	.8	.0	.2
.0	.0	.0	1.4	15.4	8.0	.8	.0	.0	.2
.2	.4	.2	3.6	44.7	40.0	9.3	.8	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	80	78	76	72	71	69	75.9	847
06009	90	82	79	76	73	71	70	76.1	515
12015	86	84	82	78	73	72	70	77.8	783
18021	82	81	79	77	73	71	70	76.5	545
TOT	90	83	81	77	73	71	69	76.6	2690

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.0	11.7	68.0	19.4	85	206
06009	.0	.0	.5	12.3	66.4	20.9	85	211
12015	.0	.0	1.9	34.6	51.9	11.5	82	208
18021	.0	.0	1.0	17.1	65.2	16.7	84	210
TOT	0	0	9	158	525	143	84	835

SEPTEMBER

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1867-1975

AREA 0013 GULF OF GUINEA EAST
1.8N 6.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
7/8	.0	.1	.1	.2	.1	.0	5	.0	.5
6	.0	.0	.2	.3	.0	.0	5	.0	.5
5	.0	.1	.4	.3	.0	.1	9	.0	.9
4	.0	.3	.7	1.3	.1	.0	24	.0	2.3
3	.0	.0	.9	.7	.0	.0	16	.0	1.6
2	.1	1.0	2.6	.6	.0	.0	44	.0	4.3
1	.0	2.5	4.0	.4	.0	.0	71	.0	6.9
0	.6	6.4	11.7	.3	.0	.0	195	.0	19.0
-1	.9	15.3	9.5	.1	.0	.0	264	.1	25.7
-2	.9	11.4	6.1	.4	.0	.0	192	.0	18.8
-3	.5	7.0	1.4	.0	.0	.0	91	.0	8.9
-4	.6	3.7	1.7	.1	.0	.0	62	.0	6.1
-5	.0	2.6	.8	.1	.0	.0	36	.0	3.5
-6	.0	.4	.1	.0	.0	.0	5	.0	.5
-7/-8	.0	.5	.0	.0	.0	.0	5	.0	.5
TOTAL	36	527	410	48	2	1	1024	.1	1023
PCT	3.5	51.5	40.0	4.7	.2	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1	.2	.2	.2	.0	.0	.0	.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	*	.3	.0	.0	.0	.0	.4
1-2	.1	.0	.0	.0	.0	.0	.1	*	1.4	.2	.0	.0	.0	1.6
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.8	.7	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.0	.0	.0	.0	.3	.1	2.5	1.0	.0	.0	.0	3.5

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0013 GULF OF GUINEA EAST
1.8N 6.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	2.9	.2	.0	.0	.0	3.7	.2	4.1	.3	.0	.0	.0	.0	4.6
1-2	.3	15.3	3.3	.0	.0	.0	18.8	.5	13.9	3.9	.0	.0	.0	.0	18.3
3-4	.0	6.5	7.1	.4	.0	.0	14.0	.0	5.6	8.2	.7	.0	.0	.0	14.4
5-6	.0	.9	5.1	.4	.0	.0	5.9	.0	.5	3.8	.0	.0	.0	.0	4.3
7	.0	.0	.3	.4	.0	.0	.7	.0	.2	.3	*	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	25.5	15.9	.8	.0	.0	43.2	.7	24.4	16.5	.7	.0	.0	.0	42.3

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.7	.0	.0	.0	.0	.8	.0	.2	.0	.0	.0	.0	.0	.2	
1-2	.6	3.5	.9	.0	.0	.0	4.9	.2	.3	.0	.0	.0	.0	.0	.5	
3-4	.0	1.2	.9	.2	.0	.0	2.3	.0	.0	*	.0	.0	.0	.0	*	
5-6	.0	.3	.4	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.6	2.1	.2	.0	.0	8.6	.2	.5	*	.0	.0	.0	.0	.6	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	8.2	.4	.0	.0	.0	11.3	
1-2	1.8	34.1	8.3	.0	.0	.0	44.3	
3-4	.0	14.2	16.8	1.2	.0	.0	32.2	
5-6	.0	1.6	9.2	.0	.0	.0	10.9	
7	.0	.1	.6	.4	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	58.4	35.5	1.6	.0	.0	100.0	671

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	15.3	14.8	4.7	2.1	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	324	3
6-7	.0	3.4	6.7	9.8	2.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	4
8-9	.0	1.6	2.8	2.8	1.4	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	5
10-11	.0	.4	1.4	2.2	.9	.0	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	5
12-13	.0	.0	1.6	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
>13	.0	.0	.0	.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
INDET	.8	3.7	5.4	3.5	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	4
TOTAL	44	186	249	188	70	16	3	3	1	3	0	0	0	0	0	0	0	0	0	763	4
PCT	5.8	24.4	32.6	24.6	9.2	2.1	.4	.4	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975AREA 0013 GULF OF GUINEA EAST
1.9N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	34.8	8.7	.0	.0	.0	.0	.0	43.5	.0	.0	.0	.0	.0	56.5
NE	25.0	31.3	.0	.0	.0	.0	.0	56.3	.0	12.5	.0	.0	.0	31.3
E	10.8	10.8	6.2	.0	.0	.0	.0	27.7	.0	12.3	6.2	.0	.0	60.0
SE	2.3	2.8	.0	.0	.0	.0	.0	5.1	2.8	1.9	.0	.0	.0	90.2
S	1.2	3.4	1.9	.0	.0	.0	.0	6.5	6.1	1.3	.0	.0	.0	86.4
SW	4.2	1.9	1.8	.0	.0	.0	.0	7.7	7.7	1.0	.0	.0	.4	83.2
W	6.1	3.3	.0	.0	.0	.0	.0	9.4	7.7	.7	.0	.0	.0	82.3
NW	11.6	.0	.0	.0	.0	.0	.0	11.6	5.8	.0	.0	.0	.0	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.5	.0	.0	.0	.0	.0	4.5	4.5	4.5	.0	.0	.0	81.8
TOT PCT	3.6	3.0	1.6	.0	.0	.0	.0	8.1	6.5	1.4	.2	.0	.2	83.9
TOT OBS:	1152													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	2.2	2.2	.7	.0	.0	.0	.0	5.1	8.7	2.9	.0	.0	.4	83.0
06009	4.0	3.3	2.0	.0	.0	.0	.0	9.4	7.7	.3	.3	.0	.3	82.3
12015	4.0	4.3	1.7	.0	.0	.0	.0	9.9	4.8	.6	.3	.0	.0	84.4
18021	3.5	2.7	1.6	.0	.0	.0	.0	7.4	4.7	2.0	.0	.0	.0	86.3
TOT PCT	3.5	3.2	1.5	.0	.0	.0	.0	8.1	6.4	1.4	.2	.0	.2	83.9
TOT OBS:	1183													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.9	.1	.0	.0	.0		1.1	6.7		.4	1.6	1.8	1.5	1.1	1.1	.8	.7
NE	.2	.6	.2	.0	.0	.0		1.0	7.8		.1	1.4	1.3	2.0	1.2	1.5	.6	1.0
E	.4	1.3	.2	.1	.0	.0		2.0	7.1		1.3	2.8	2.9	3.2	2.0	2.0	.6	1.5
SE	.7	4.0	1.0	*	*	.0		5.8	7.8		5.8	6.7	5.1	5.6	6.0	5.3	5.1	6.3
S	2.0	21.5	8.3	.2	.0	.0		32.0	8.8		33.7	26.8	35.8	25.2	34.3	27.7	32.5	34.3
SW	2.0	27.5	9.8	.1	.0	.0		39.3	8.8		39.5	37.4	40.6	35.1	35.9	43.0	45.2	38.7
W	1.0	9.9	2.8	.1	.0	.0		13.8	8.2		15.1	15.6	9.2	18.5	12.9	14.5	12.8	14.2
NW	.2	2.0	.7	*	.0	.0		3.0	8.4		2.4	4.0	1.6	6.0	3.9	3.0	1.4	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		1.6	3.8	1.8	2.9	2.7	1.9	1.0	1.0
TOT OBS	228	1788	608	14	1	0	2639		8.4		497	290	342	205	524	264	315	202
TOT PCT	8.6	67.8	23.0	.5	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.6	.5	.0	.0	.0		1.1	6.7	.8	1.6	1.1	.8	
NE	.5	.5	.1	.0	.0		1.0	7.8	.6	1.6	1.3	.8	
E	1.2	.5	.2	.0	.0		2.0	7.1	1.8	3.0	2.0	1.0	
SE	2.9	2.6	.2	.1	.0		5.8	7.8	6.2	5.3	5.8	5.6	
S	10.3	20.5	1.1	*	.0		32.0	8.8	31.2	31.9	32.1	33.2	
SW	11.7	26.4	1.2	.0	.0		39.3	8.8	38.8	38.5	38.3	42.7	
W	5.4	7.9	.5	.0	.0		13.8	8.2	15.3	12.7	13.5	13.3	
NW	1.4	1.4	.2	*	.0		3.0	8.4	3.0	3.2	3.6	1.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.1						2.1	.0	2.4	2.2	2.4	1.0	
TOT OBS	949	1593	93	4	0	2639		8.4	787	547	788	517	
TOT PCT	36.0	60.4	3.5	.2	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										TOTAL OBS
	CALM	1-3	4-10	WIND SPEED (KNOTS):				48+	MEAN	PCT FREQ	
				11-21	22-33	34-47					
00003	2.4	7.6	67.0	22.9	.1	.0	.0	.0	8.2	100.0	787
06009	2.2	6.0	70.0	21.2	.5	.0	.0	.0	8.2	100.0	547
12015	2.4	6.6	66.4	24.7	.8	.1	.0	.0	8.4	100.0	788
18021	1.0	5.4	68.7	24.2	.8	.0	.0	.0	8.8	100.0	517
TOT	55	173	1788	608	14	1	0	0	8.4		2639
PCT	2.1	6.6	67.8	23.0	.5	*	.0		100.0		

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION					MEAN TOTAL CLOUD COVER
	0-2	3-4	5-7	8-10	TOTAL OBS	
N	.0	.0	.2	.1		6.3
NE	*	.1	*	.4		6.8
E	.1	.1	.1	.9		6.9
SE	.4	1.0	2.1	1.4		5.8
S	3.9	5.9	18.6	14.5		6.0
SW	3.4	6.3	16.8	12.9		6.0
W	.4	2.3	4.0	2.1		5.6
NW	.0	.0	.4	.8		7.2
VAR	.0	.0	.0	.0		.0
CALM	.1	.1	.2	.2		5.3
TOT OBS	75	142	382	301	900	6.0
TOT PCT	8.3	15.8	42.4	33.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION														NH < 5/8 ANY HGT	TOTAL OBS
000	150	300	600	1000	2000	3500	5000	6500	8000+						
149	299	599	999	1999	3499	4999	6499	7999							
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.1					
.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.2					
.1	.0	.0	.2	.3	.2	.0	.0	.0	.0	.4					
.0	.0	.3	.5	.9	.8	*	.2	.0	.0	2.1					
.1	.0	.5	5.4	9.4	6.8	1.2	.6	.0	.6	18.1					
.1	.0	1.1	5.5	8.9	4.4	1.0	.4	.3	.4	17.3					
.0	.1	.2	1.1	1.2	1.0	.1	.2	.0	.2	4.7					
.0	.0	.0	.4	.1	.3	.2	.0	.0	.1	.1					
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.4					
3	1	19	120	193	124	23	12	3	12	390					
.3	.1	2.1	13.3	21.4	13.8	2.6	1.3	.3	1.3	43.3					
										900					
										100.0					

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	1.1	1.5	1.7	1.7	1.7	1.7	1.7	1.7	
>5000	1.9	2.8	3.0	3.0	3.0	3.0	3.0	3.0	
>3500	4.5	5.7	6.0	6.0	6.0	6.0	6.0	6.0	
>2000	16.1	19.0	19.3	19.5	19.5	19.5	19.5	19.5	
>1000	32.9	39.4	40.3	40.6	40.6	40.6	40.6	40.6	
>500	43.2	51.9	53.2	53.7	53.7	53.7	53.7	53.7	
>300	44.3	53.9	55.4	55.8	55.8	56.0	56.0	56.0	
>150	44.3	54.0	55.5	56.0	56.0	56.1	56.1	56.1	
>0	44.3	54.2	55.7	56.2	56.2	56.3	56.3	56.4	
TOTAL	409	501	515	519	519	520	520	521	

TOTAL NUMBER OF OBS: 924

PCT FREQ NH < 5/8: 43.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
1.7	5.1	12.4	12.6	11.9	9.1	11.4	13.6	22.1	.3	969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1<2	PCP	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.3	.3
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2
	TOT %	.0	.1	.1	.0	.0	.2	.2	.0	.0	.0	.5	.5
2<5	PCP	.1	.0	.2	*	.2	.7	.0	.0	.0	.1	1.2	1.2
	NO PCP	.0	.0	.0	.0	.2	.5	.2	.1	.0	.0	1.0	1.0
	TOT %	.1	.0	.2	*	.4	1.1	.2	.1	.0	.1	2.2	2.2
5<10	PCP	*	.3	.0	.2	1.3	1.5	.3	.1	.0	.0	3.8	3.8
	NO PCP	.1	.2	.3	.9	6.3	7.0	2.8	.8	.0	1.3	19.7	19.7
	TOT %	.2	.5	.3	1.1	7.6	8.6	3.2	.9	.0	1.3	23.5	23.5
10+	PCP	.1	.0	.2	*	1.1	.8	.4	.1	.0	.0	2.7	2.7
	NO PCP	.2	.1	.7	3.5	30.6	28.7	5.9	.8	.0	.4	70.9	70.9
	TOT %	.2	.1	.8	3.5	31.7	29.5	6.4	.9	.0	.4	73.6	73.6
TOT OBS													1152
TOT PCT		.5	.7	1.4	4.6	39.7	39.4	9.9	1.9	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.1	.1	.1	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.1	.0	.0	.3	.2	.1	.0	.0	.7	.7
2<5	0-3	.1	.0	.0	.0	.0	.2	.0	.0	.0	.1	.3	.3
	4-10	*	.0	.0	.0	.5	1.3	.5	.1	.0	.0	2.5	2.5
	11-21	.0	*	.1	*	.2	.2	.2	.1	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	*	.1	.1	.5	1.6	.7	.2	.0	.1	3.4	3.4
5<10	0-3	.0	.1	*	.2	.9	.7	.3	.1	.0	1.1	3.4	3.4
	4-10	.1	.3	.3	1.0	4.6	5.5	1.6	.5	.0	.0	13.9	13.9
	11-21	.0	.1	*	*	1.1	2.1	1.2	.1	.0	.0	4.7	4.7
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.5	.4	1.3	6.6	8.3	3.1	.7	.0	1.1	22.1	22.1
10+	0-3	*	.1	.3	.3	1.5	1.6	.6	.2	.0	1.1	5.7	5.7
	4-10	.2	.2	.7	2.7	18.1	22.8	5.9	.9	.0	.0	51.6	51.6
	11-21	.0	.0	.1	.9	7.0	6.1	1.6	.1	.0	.0	15.8	15.8
	22+	.0	.0	.1	.1	.1	.2	*	.0	.0	.0	.5	.5
	TOT %	.3	.3	1.2	3.9	26.7	30.7	8.1	1.2	.0	1.1	73.6	73.6
TOT OBS													1658
TOT PCT		.5	.9	1.9	5.2	33.9	40.9	12.1	2.2	.0	2.4	100.0	

PERIOD: (PRIMARY) 1924-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.9	.0	2.7	11.2	25.4	15.2	1.8	1.3	.4	2.2	61.2	38.8	224
06009	.0	.0	2.4	16.6	22.3	13.8	4.0	1.6	.4	2.0	63.2	36.8	247
12015	.4	.4	1.6	11.1	19.8	11.9	4.0	1.6	.4	.0	51.0	49.0	253
18021	.0	.0	2.3	12.3	15.1	12.3	1.4	.5	.0	1.4	45.2	54.8	219
TOT	3	1	21	121	195	125	27	12	3	13	521	422	943
PCT	.3	.1	2.2	12.8	20.7	13.3	2.9	1.3	.3	1.4	55.2	44.8	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.0	.0	.5	3.4	21.2	75.0	444
06009	.3	.3	1.5	3.3	22.0	72.6	391
12015	.2	.2	.8	3.2	26.1	69.5	501
18021	.0	.0	.3	3.7	17.0	79.0	353
TOT	2	2	13	57	371	1244	1689
PCT	.1	.1	.8	3.4	22.0	73.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8 AND 5+	TOTAL OBS
(GMT)	<50YD	<1	<5	AND 5+		
00003	.9	3.6	15.2	46.6	38.1	223
06009	.0	2.4	21.6	42.4	35.9	245
12015	.4	2.4	15.4	37.4	47.2	246
18021	.0	2.4	16.7	30.5	52.9	210
TOT	3	25	160	364	400	924
PCT	.3	2.7	17.3	39.4	43.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.0	1.0	.0	.0	11	1.1
80/84	.0	.0	.0	.0	.4	6.5	8.6	.8	158	16.4
75/79	.0	.0	.0	.0	.6	8.7	49.1	14.5	703	73.0
70/74	.0	.0	.0	.0	.0	1.2	5.0	3.2	91	9.4
TOTAL	0	0	0	1	10	169	604	179	963	100.0
PCT	.0	.0	.0	.1	1.0	17.5	62.7	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.3	.5	.1	.1	.0	.0
.2	.1	.2	1.3	5.4	5.8	2.1	.5	.0	.8
.1	.4	1.0	2.8	32.7	27.8	6.2	1.0	.0	1.1
.1	.2	.0	.5	4.5	3.5	.4	.2	.0	.1
.4	.7	1.1	4.6	42.9	37.6	8.8	1.8	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	86	81	80	77	74	73	71	77.2	795
06009	89	82	81	77	74	72	71	77.3	557
12015	94	86	84	79	75	73	70	79.3	787
18021	89	82	81	78	74	73	72	77.8	521
TOT	94	85	82	78	74	73	70	77.9	2660

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.0	.4	9.1	71.8	18.7	85	241
06009	.0	.0	.8	11.0	62.2	26.0	86	246
12015	.0	.0	2.4	31.1	53.5	12.9	82	286
18021	.0	.5	.5	15.9	66.4	16.8	84	214
TOT	0	1	11	172	621	182	84	987

OCTOBER

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975AREA 0013 GULF OF GUINEA EAST
1.9N 6.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.2	.2	4	.0	.4
7/8	.0	.0	.1	.3	.2	.0	6	.0	.6
6	.0	.1	.1	.0	.1	.0	3	.0	.3
5	.0	.0	.1	.3	.2	.0	6	.0	.6
4	.0	.1	.3	1.0	.1	.1	17	.0	1.6
3	.0	.1	.7	.6	.0	.0	14	.0	1.3
2	.0	.0	2.0	1.2	.1	.0	35	.1	3.2
1	.0	.7	2.8	2.1	.1	.0	61	.0	5.7
0	.0	3.4	10.1	2.6	.0	.0	173	.0	16.1
-1	.1	5.5	16.9	.8	.0	.0	251	.0	23.4
-2	.1	7.3	11.6	1.4	.0	.0	219	.0	20.4
-3	.1	5.5	7.3	.2	.0	.0	140	.0	13.0
-4	.0	3.4	3.2	.1	.0	.0	71	.0	6.6
-5	.1	2.0	1.0	.1	.0	.0	44	.0	4.1
-6	.1	.9	.6	.0	.0	.0	17	.1	1.5
-7/-8	.0	1.0	.0	.0	.0	.0	11	.0	1.0
-9/-10	.0	.1	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	6	321	609	115	10	3	1074	2	1072
PCT	.6	30.8	56.7	10.7	.9	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.4	.0	.0	.0	.0	.4	.0	1.3	1.0	.0	.0	.0	2.3
3-4	.0	.4	.3	.0	.0	.0	.7	.0	.1	.5	.0	.0	.0	.6
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.5	.2	.0	.1	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.4	.1	.0	.0	1.4	.0	2.4	1.7	.1	.1	.0	4.3

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0013 GULF OF GUINEA EAST
1.9N 6.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	2.0	.1	.0	.0	.0	2.3		.5	3.6	.2	.0	.0	.0	4.2	
1-2	.4	17.5	4.1	.0	.0	.0	22.0		.7	17.7	6.5	.0	.0	.0	25.0	
3-4	.0	5.8	5.1	.0	.0	.0	10.9		.0	4.3	2.5	.1	.0	.0	7.0	
5-6	.0	1.7	3.4	.0	.0	.0	5.1		.0	.8	2.9	.0	.0	.0	3.6	
7	.0	.2	.1	.0	.0	.0	.4		.0	*	.7	.0	.0	.0	.7	
8-9	.0	.0	.1	.1	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.1	.0	.0	.2		.0	.0	*	.0	.0	.0	*	
12	.0	.0	.1	.0	.0	.0	.1		.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	27.2	13.2	.3	.0	.0	41.3		1.2	26.4	12.9	.1	.0	.0	40.6	

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.7	1.0	.1	.0	.0	.0	1.8		*	.1	.0	.0	.0	.0	.0	.2	
1-2	.0	4.6	.5	.0	.0	.0	5.1		.0	.4	.0	.0	.0	.0	.0	.4	
3-4	.0	.5	1.4	.0	.0	.0	1.9		.0	.6	.1	.0	.0	.0	.0	.7	
5-6	.0	.1	.1	.0	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.3	2.4	.0	.0	.0	9.4		*	1.1	.1	.0	.0	.0	1.2	99.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	7.5	.4	.0	.0	.0	11.3	
1-2	1.3	41.7	12.0	.0	.0	.0	54.9	
3-4	.0	11.7	9.9	.1	.0	.0	21.7	
5-6	.0	3.1	6.5	.1	.1	.0	9.9	
7	.0	.3	1.0	.1	.0	.0	1.4	
8-9	.0	.0	.3	.1	.0	.0	.4	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.6	64.3	30.3	.7	.1	.0	100.0	719

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	3.7	18.1	15.0	9.6	1.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	415	3
6-7	.0	4.4	8.9	6.3	1.8	.2	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	4
8-9	.0	.5	2.6	4.0	1.8	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	5
10-11	.0	1.3	.6	2.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
12-13	.0	.0	1.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
INDET	1.8	5.9	4.0	1.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	2
TOTAL	48	261	279	218	49	5	5	1	1	0	1	0	0	0	0	0	0	0	0	.0	868	3
PCT	5.5	30.1	32.1	25.1	5.6	.6	.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1872-1975

NOVEMBER

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	4.2	22.9	4.2	.0	.0	.0	.0	31.3	6.3	.0	.0	.0	.0	.0	62.5
NE	19.6	21.4	3.6	.0	.0	.0	.0	44.6	1.8	.0	.0	.0	.0	.0	53.6
E	23.1	6.2	.0	.0	.0	.0	.0	29.2	.0	.0	.0	.0	.0	.0	70.8
SE	9.3	1.7	1.1	.0	.0	.0	.0	12.1	6.5	2.5	.3	.0	.0	.0	80.8
S	1.7	4.0	1.7	.0	.0	.0	.0	7.4	4.4	1.8	.8	.0	.2	.1	85.3
SW	1.8	1.8	1.0	.0	.0	.0	.0	4.6	3.9	2.4	.9	.0	.0	.1	88.2
W	1.5	.7	2.7	.0	.0	.0	.0	5.0	1.7	4.2	.0	.0	.0	.0	89.8
NW	6.2	7.7	6.2	.0	.0	.0	.0	20.0	6.2	.0	.0	.0	.0	.0	73.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	3.3	.0	.0	.0	93.3
TOT PCT	2.8	3.2	1.6	.0	.0	.0	.0	7.6	4.0	2.1	.7	.0	.1	.1	85.6
TOT OBS:	1219														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0003	3.1	4.5	1.7	.0	.0	.0	.0	9.4	4.5	4.9	1.0	.0	.0	.0	80.8
0609	3.0	2.6	3.0	.0	.0	.0	.0	8.5	4.6	1.0	1.0	.0	.0	.3	84.6
1215	3.8	3.0	1.1	.0	.0	.0	.0	7.9	2.7	.3	.5	.0	.3	.0	88.5
1821	1.7	2.3	.7	.0	.0	.0	.0	4.7	4.4	3.0	.3	.0	.0	.0	87.6
TOT PCT	3.0	3.1	1.6	.0	.0	.0	.0	7.7	4.0	2.2	.7	.0	.1	.1	85.6
TOT OBS:	1254														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	.6	.2	.0	.0	.0		1.2	6.3	.4	1.2	1.1	1.5	2.1	1.0	.8	1.5	
NE	.6	.6	.3	.0	.0	.0		1.0	9.0	.3	1.0	1.7	.6	1.3	.8	1.4	.4	
E	.3	.9	.3	.1	.0	.0		1.6	8.3	1.0	2.6	2.2	1.9	2.2	1.6	.7	.2	
SE	.6	4.5	1.0	.0	.0	.0		6.1	8.0	6.0	6.0	7.8	7.1	7.3	4.6	4.5	4.5	
S	2.5	23.7	6.7	.0	.0	.0		33.0	8.1	31.8	25.2	41.1	26.7	34.6	32.1	36.1	34.4	
SW	1.7	30.6	6.4	.1	.0	.0		38.8	8.1	40.8	41.4	36.7	40.5	35.0	37.5	38.7	42.3	
W	1.1	10.2	1.6	.0	.0	.0		12.9	7.5	14.1	16.5	6.2	15.4	11.2	15.7	13.1	12.6	
NW	.4	1.8	.3	.0	.0	.0		2.5	6.8	1.9	3.1	1.4	4.1	2.7	3.6	2.1	2.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9							2.9	.0	3.7	3.0	1.9	2.1	3.5	3.2	2.6	1.7	
TOT OBS	277	2050	474	6	0	0	2807		7.7	536	305	322	238	541	281	347	237	
TOT PCT	9.9	73.0	16.9	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.7	.4	.1	.0	.0		1.2	6.3	.7	1.3	1.7	1.1
NE	.5	.3	.2	.0	.0		1.0	9.0	.5	1.3	1.2	1.0
E	.9	.5	.2	.0	.0		1.6	8.3	1.6	2.1	2.0	.5
SE	2.4	3.5	.2	.0	.0		6.1	8.0	6.0	7.5	6.4	4.5
S	12.9	19.7	.5	.0	.0		33.0	8.1	29.4	35.0	33.8	35.4
SW	13.9	24.2	.6	.0	.0		38.8	8.1	41.0	38.3	35.8	40.2
W	5.6	7.1	.1	.0	.0		12.9	7.5	15.0	10.1	12.7	12.9
NW	1.5	.9	.1	.0	.0		2.5	6.8	2.3	2.5	3.0	2.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	3.4	2.0	3.4	2.2
TOT OBS	1159	1592	55	1	0	2807		7.7	841	560	822	584
TOT PCT	41.3	56.7	2.0	.0	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1924-1975
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.4	6.9	75.7	13.7	.2	.0	.0	7.5	100.0	841
06009	2.0	6.6	72.9	18.4	.2	.0	.0	7.9	100.0	560
12015	3.4	8.0	70.9	17.4	.2	.0	.0	7.6	100.0	822
18021	2.2	6.0	72.3	19.3	.2	.0	.0	8.1	100.0	584
TOT	81	196	2050	474	6	0	0	7.7		2807
PCT	2.9	7.0	73.0	16.9	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.2	.2	.3		5.7
NE	.1	.3	.3	.6		6.7
E	.1	.1	.3	.9		7.1
SE	.9	1.2	3.0	2.6		5.9
S	4.6	7.7	22.3	12.1		5.8
SW	3.5	5.9	15.3	7.8		5.5
W	1.1	2.1	2.7	1.4		5.1
NW	.2	.2	.3	.4		5.7
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.5	.7		5.7
TOT OBS	110	173	446	266	995	5.7
TOT PCT	11.1	17.4	44.8	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	.0	.0	.0	.3	.1	.0	.0	.0	.0	.3	
.0	.1	.2	.4	.0	.1	.0	.0	.0	.0	.3	
.0	.1	.0	.1	.5	.2	.2	.0	.0	.0	.3	
.0	.0	.3	.4	1.0	.7	.4	.0	.3	.4	4.7	
.1	.0	.7	4.8	9.9	5.8	1.4	.8	.0	.7	22.7	
.0	.1	.7	3.2	4.4	4.7	1.5	.4	.2	.2	17.0	
.1	.0	.1	.6	1.3	.1	.1	.0	.0	.0	5.0	
.0	.0	.0	.1	.4	.0	.1	.0	.0	.0	.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.5	.2	.2	.0	.0	.0	.7	
.3	.2	1.9	9.4	18.4	11.7	3.9	1.2	.2	1.2	51.1	995
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4
= OR >5000	2.4	2.5	2.5	2.6	2.6	2.6	2.6	2.6
= OR >3500	5.5	6.3	6.3	6.4	6.4	6.4	6.4	6.4
= OR >2000	15.9	18.1	18.4	18.5	18.5	18.5	18.5	18.5
= OR >1000	30.8	35.5	36.7	36.8	36.8	36.9	36.9	36.9
= OR >600	38.3	44.4	45.7	46.0	46.1	46.2	46.2	46.2
= OR >300	39.4	46.0	47.6	47.9	48.0	48.1	48.1	48.1
= OR >150	39.4	46.1	47.7	48.0	48.1	48.2	48.2	48.2
= OR >0	39.4	46.2	47.9	48.2	48.3	48.5	48.5	48.5
TOTAL	398	467	484	487	488	490	490	490

TOTAL NUMBER OF OBS: 1010

PCT FREQ NH <5/8: 51.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
2.2	7.4	14.5	12.9	13.5	10.7	12.9	9.2	16.5	.2	1068

PERIOD: (PRIMARY) 1924-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.1	.0	.0	.1	*	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.2	*	.0	.0	.0	.0	.3	
2<5	PCP	.2	.2	.1	.0	.3	.2	.0	.1	.0	.0	1.2	
	NO PCP	.1	.1	.0	.0	.1	.1	.1	.0	.0	.0	.4	
	TOT %	.3	.3	.1	.0	.4	.3	.1	.1	.0	.0	1.6	
5<10	PCP	.1	.2	.1	.2	1.3	.6	.3	.2	.0	.0	3.0	
	NO PCP	.3	.2	.5	.8	5.2	6.0	2.3	.4	.0	.7	16.5	
	TOT %	.4	.4	.7	1.0	6.5	6.6	2.6	.6	.0	.7	19.4	
10+	PCP	.0	.0	.2	.5	1.5	.6	.1	.0	.0	.1	3.0	
	NO PCP	.3	.3	.4	5.6	35.2	25.7	5.5	.7	.0	1.6	75.2	
	TOT %	.3	.3	.6	6.1	36.6	26.4	5.6	.7	.0	1.6	78.3	
TOT OBS													1219
TOT PCT		1.0	1.1	1.3	7.3	43.8	33.4	8.2	1.3	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	*	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	*	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.2	
	11-21	.0	.1	*	*	.0	.0	.1	.0	.0	.0	.1	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.2	*	.1	.0	.0	.1	.5	
2<5	0-3	.1	.0	.0	*	.1	*	*	*	.0	.0	.3	
	4-10	.1	.1	*	*	.2	.3	.1	.1	.0	.0	.9	
	11-21	.1	.1	.1	.0	.3	.2	.1	.0	.0	.0	.8	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.2	.2	.1	.5	.5	.2	.1	.0	.0	2.0	
5<10	0-3	.2	*	.2	.2	.5	.2	.3	*	.0	.7	2.3	
	4-10	.3	.1	.1	.5	3.8	4.7	1.6	.2	.0		11.4	
	11-21	*	.1	.1	.2	1.2	1.0	.3	.2	.0		3.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.3	.5	.9	5.5	6.0	2.2	.4	.0	.7	16.8	
10+	0-3	.0	.0	*	.4	2.1	1.8	.7	.3	.0	2.7	8.0	
	4-10	.4	.4	.5	3.9	22.0	23.7	5.9	.8	.0		57.5	
	11-21	*	.1	.1	1.1	7.1	4.8	1.4	.2	.0		14.7	
	22+	.0	.0	.1	.0	*	.1	.0	.0	.0	.0	.2	
	TOT %	.4	.5	.7	5.4	31.2	30.4	8.0	1.2	.0	2.7	80.4	
TOT OBS													1910
TOT PCT		1.2	1.1	1.4	6.5	37.4	36.9	10.4	1.7	.0	3.5	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1872-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.9	.0	.4	10.2	17.0	11.9	4.7	.0	.0	1.7	46.8	53.2	235
06009	.4	.4	3.5	9.3	21.8	11.7	1.9	1.6	.4	.8	51.8	48.2	257
12015	.0	.0	2.1	8.7	15.9	11.1	4.8	1.7	.3	.7	45.3	54.7	289
18021	.0	.4	1.2	8.4	17.6	12.0	3.6	1.2	.0	1.6	46.8	53.2	250
TOT	3	2	19	94	186	122	39	12	2	12	491	540	1031
PCT	.3	.2	1.8	9.1	18.0	11.8	3.8	1.2	.2	1.2	47.6	52.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.2	.2	2.1	15.0	82.2	528
06009	.0	.2	.2	2.8	18.9	77.8	424
12015	.2	.0	.7	2.0	18.0	79.1	560
18021	.0	.2	.7	1.2	17.1	80.8	433
TOT	3	3	9	39	334	1557	1945
PCT	.2	.2	.5	2.0	17.2	80.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.9	1.7	12.6	35.2	52.2	230
06009	.4	4.0	15.5	37.3	47.2	252
12015	.0	2.5	12.7	33.9	53.4	283
18021	.0	1.6	11.8	35.9	52.2	245
TOT	3	25	133	359	518	1010
PCT	.3	2.5	13.2	35.5	51.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.2	.1	.2	.0	.0	5	.5
85/89	.0	.0	.0	.0	.5	1.5	.3	.4	29	2.6
80/84	.0	.0	.0	.0	.9	9.3	22.4	4.2	409	36.8
75/79	.0	.0	.0	.1	5.2	40.9	11.3	639	57.5	
70/74	.0	.0	.0	.0	.0	.4	2.2	28	2.5	
TOTAL	0	0	0	3	17	180	710	201	1111	100.0
PCT	.0	.0	.0	.3	1.5	16.2	63.9	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.1	.0	.1	.0	.1	.0	.0	.1
.1	.0	.1	.1	.6	.9	.6	.1	.0	.1
.3	.1	.3	2.3	15.1	13.8	3.8	.5	.0	.5
.2	.4	.6	4.3	28.4	18.0	3.7	.6	.0	1.4
.2	.4	.3	.2	.8	.3	.1	.2	.0	.0
.8	.9	1.4	6.9	45.1	33.2	8.3	1.4	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	83	82	79	76	74	73	79.1	852
06009	90	83	82	79	75	73	69	79.0	569
12015	93	89	86	81	76	73	72	80.9	830
18021	85	83	82	80	76	73	71	79.4	588
TOT	95	86	84	80	76	73	69	79.7	2839

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	.0	6.4	74.4	18.8	86	266
06009	.0	.0	.0	8.5	69.0	22.4	86	281
12015	.0	.6	4.7	35.0	44.4	15.3	82	320
18021	.0	.0	.7	10.3	71.7	17.3	85	272
TOT	0	3	17	181	729	209	84	1139

PERIOD: (PRIMARY) 1924-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
9/10	.0	.0	.0	.3	.1	.2	.1	8	.2	.5
7/8	.0	.0	.0	.4	.3	.1	.0	9	.1	.7
6	.0	.0	.1	.1	.2	.1	.0	5	.1	.3
5	.0	.0	.1	.3	.4	.0	.0	9	.1	.7
4	.0	.0	.6	1.1	.3	.1	.0	25	.1	2.1
3	.0	.0	.9	1.8	.3	.0	.0	35	.0	3.0
2	.0	.1	2.2	2.2	.4	.1	.0	57	.1	4.9
1	.0	.3	3.2	1.9	.2	.0	.0	64	.1	5.5
0	.0	.3	10.0	4.0	.2	.0	.0	167	.1	14.4
-1	.0	1.9	15.9	5.5	.0	.0	.0	268	.0	23.3
-2	.0	1.5	13.8	3.3	.1	.0	.0	214	.0	18.6
-3	.0	1.6	7.9	1.5	.0	.0	.0	126	.0	11.0
-4	.0	1.6	4.5	.8	.0	.0	.0	79	.0	6.9
-5	.1	1.4	1.8	.4	.0	.0	.0	43	.0	3.7
-6	.0	.9	.5	.0	.0	.0	.0	16	.0	1.4
-7/-8	.1	.6	.5	.0	.0	.0	.0	14	.0	1.2
-9/-10	.0	.3	.0	.0	.0	.0	.0	4	.0	.3
-11/-13	.3	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	5		713		30		2	1149		1140
PCT	.4	10.4	62.1	23.7	2.6	.6	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.0	.6
1-2	.0	.1	.1	.0	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.0	.3
3-4	.2	.1	.1	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	.2	.0	.0	.0	.0	.9	.0	.4	.6	.0	.0	.0	.0	1.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.1	.0	.0	.0	.0	.0	.1	.1	.7	.0	.0	.0	.0	.0	.8
1-2	.1	.4	.4	.0	.0	.0	.0	.9	.3	2.2	.9	.0	.0	.0	.0	3.4
3-4	.0	.2	.1	.0	.0	.0	.0	.4	.0	1.3	1.0	.0	.0	.0	.0	2.3
5-6	.0	.0	.0	.1	.0	.0	.0	.1	.0	.2	.3	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	.5	.1	.0	.0	.0	1.6	.4	4.5	2.3	.0	.0	.0	.0	7.2

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.0	1.9	.4	.0	.0	.0	3.3	.5	4.2	.3	.0	.0	.0	.0	5.0
1-2	1.3	19.9	5.9	.0	.0	.0	27.1	.5	16.2	3.0	.0	.0	.0	.0	19.7
3-4	.0	7.4	4.7	.0	.0	.0	12.1	.2	4.3	2.3	.0	.0	.0	.0	6.9
5-6	.0	.5	3.2	.0	.0	.0	3.8	.0	.1	2.2	.0	.0	.0	.0	2.2
7	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	29.9	14.4	.0	.0	.0	46.6	1.3	24.8	7.7	.0	.0	.0	.0	33.8

MGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.1	.1	.0	.0	.0	1.4	.1	.0	.0	.0	.0	.0	.1	.7
1-2	.3	2.9	.2	.0	.0	.0	3.4	.3	.4	.0	.0	.0	.0	.7	.7
3-4	.0	.7	1.3	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.8	1.6	.0	.0	.0	6.9	.4	.4	.0	.0	.0	.0	.8	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	8.3	.7	.0	.0	.0	13.3	
1-2	3.0	41.8	10.6	.0	.0	.0	55.3	
3-4	.5	14.0	9.6	.0	.0	.0	24.1	
5-6	.0	.8	5.8	.1	.0	.0	6.7	
7	.0	.2	.1	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	65.2	26.9	.1	.0	.0	100.0	833

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGT
<6	2.3	22.6	17.0	4.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	460	3
6-7	.0	5.4	10.6	6.5	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	4
8-9	.0	1.3	3.7	2.0	2.2	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	5
10-11	.0	2.6	1.5	.9	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	4
12-13	.0	.0	1.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	2.6	5.3	3.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	2
TOTAL	49	366	368	144	38	11	4	2	0	0	0	0	0	0	0	0	0	0	0	982	3
PCT	5.0	37.3	37.5	14.7	3.9	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1866-1975AREA 0013 GULF OF GUINEA EAST
1.7N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.6	3.8	.0	.0	.0	.0	.0	11.4	2.9	.0	7.6	.0	3.8	.0	74.3
NE	4.4	5.8	.0	.0	.0	.0	.0	10.2	.7	2.9	23.4	.0	11.7	.0	54.0
E	10.0	.0	.0	.0	.0	.0	.0	10.0	6.7	5.0	20.0	.0	.0	.0	58.3
SE	4.4	1.0	.0	.0	.0	.0	.0	5.4	1.9	2.9	2.9	.0	.5	.0	86.4
S	2.3	1.4	.0	.0	.0	.0	.0	3.7	3.1	2.3	.6	.0	.9	.0	89.4
SW	2.3	1.1	.6	.0	.0	.0	.0	4.1	1.8	2.2	.9	.0	1.3	.0	90.0
W	1.5	2.8	.8	.0	.0	.0	.0	5.1	3.8	4.0	2.7	.0	3.8	.0	80.7
NW	2.6	2.6	.0	.0	.0	.0	.0	5.3	3.9	.0	6.6	.0	.0	.0	84.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	12.5	.0	16.1	.0	69.6
TOT PCT	2.6	1.6	.3	.0	.0	.0	.0	4.5	2.5	2.4	3.2	.0	2.5	.0	85.1
TOT OBS:	1071														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.8	1.6	.4	.0	.0	.0	.0	4.8	1.6	6.4	.8	.0	2.4	.0	84.5
06009	2.4	3.4	.7	.0	.0	.0	.0	6.5	3.1	2.1	4.8	.0	2.1	.0	81.4
12015	2.2	.6	.0	.0	.0	.0	.0	2.8	3.5	.0	4.7	.0	3.1	.0	85.8
18021	3.0	1.9	.0	.0	.0	.0	.0	4.9	1.1	1.9	1.9	.0	1.9	.0	88.8
TOT PCT	2.6	1.9	.3	.0	.0	.0	.0	4.7	2.4	2.4	3.2	.0	2.4	.0	85.1
TOT OBS:	1127														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	1.5	.4	.0	.0	.0	2.5	6.7	1.4	3.1	2.2	3.7	3.1	3.1	2.0	1.3		
NE	.3	1.6	.5	.1	.0	.0	2.5	8.0	2.4	.9	2.9	3.9	3.3	2.9	1.9	1.6		
E	.4	1.1	.3	.0	.0	.0	1.8	6.4	.8	2.0	3.3	2.6	2.5	1.2	1.5	.6		
SE	1.9	5.9	1.0	.0	.0	.0	8.7	6.4	6.7	7.5	12.7	8.8	10.4	8.2	8.4	7.3		
S	3.4	19.9	5.3	.1	.2	.0	28.9	7.9	28.9	26.7	36.6	25.5	28.6	26.1	28.8	30.6		
SW	3.0	22.6	4.8	.1	.1	.0	30.6	7.9	36.1	31.7	24.6	27.8	25.9	31.6	32.3	34.6		
W	1.5	12.1	1.5	.0	.0	.0	15.1	7.4	16.3	19.6	8.8	15.3	13.7	16.2	16.0	14.5		
NW	.8	3.4	.6	.0	.0	.0	4.7	6.7	3.5	4.8	3.3	6.6	6.2	4.7	4.5	4.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.1						5.1	.0	4.0	3.7	5.4	5.8	6.3	6.1	4.6	4.9		
TOT OBS	486	1950	413	7	8	0	2864		530	326	314	258	522	344	324	246		
TOT PCT	17.0	68.1	14.4	.2	.3	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.6	.8	.1	.0	.0		2.5	6.7	2.0	2.9	3.1	1.7		
NE	1.3	1.1	.1	.0	.0		2.5	8.0	1.8	3.3	3.1	1.8		
E	1.3	.5	.1	.0	.0		1.8	6.4	1.3	3.0	2.0	1.1		
SE	5.2	3.4	.1	.0	.0		8.7	6.4	7.0	11.0	9.5	7.9		
S	12.0	16.2	.6	.2	.0		28.9	7.9	28.0	31.6	27.6	29.6		
SW	12.4	17.7	.4	.1	.0		30.6	7.9	34.4	26.0	28.1	33.3		
W	6.5	8.5	.2	.0	.0		15.1	7.4	17.6	11.8	14.7	15.4		
NW	2.8	1.8	.1	.0	.0		4.7	6.7	4.0	4.8	5.6	4.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.1						5.1	.0	3.9	5.6	6.2	4.7		
TOT OBS	1377	1431	47	9	0	2864		7.2	85.6	57.2	86.6	57.0		
TOT PCT	48.1	50.0	1.6	.3	.0		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.9	10.7	70.3	14.7	.1	.2	.0	7.3	100.0	856
0600	5.6	10.0	70.5	13.5	.3	.2	.0	7.2	100.0	572
1200	6.2	14.3	66.1	12.7	.3	.3	.0	6.9	100.0	866
1800	4.7	11.8	65.4	17.5	.2	.4	.0	7.3	100.0	570
TOT	146	340	1950	413	7	8	0	7.2		2864
PCT	5.1	11.9	68.1	14.4	.2	.3	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.5	.3	.5	1.0		5.3
NE	.2	.3	.8	1.1		6.0
E	.0	.1	.6	.5		7.0
SE	.7	1.9	5.5	2.5		5.8
S	4.6	8.4	14.9	9.0		5.4
SW	5.9	5.9	10.9	8.0		5.1
W	2.0	1.8	2.6	3.6		5.4
NW	.6	.7	.8	.6		4.9
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	1.2	1.0		5.0
TOT OBS	123	158	305	219	803	5.4
TOT PCT	15.3	19.7	37.7	27.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.2	.1	.0	.0	.0	.2	.1	1.6	
.0	.0	.0	.1	.4	.4	.0	.0	.0	.0	1.6	
.0	.0	.2	.0	.0	.5	.0	.1	.0	.0	.3	
.0	.0	.2	1.1	1.2	1.0	.8	.0	.0	.4	5.9	
.1	.0	.3	3.9	5.4	5.1	.5	.0	.0	.1	21.4	
.4	.0	.7	1.0	5.2	2.7	.6	.2	.4	.6	18.8	
.0	.0	.0	.8	2.1	.3	.5	.1	.1	.0	6.0	
.0	.0	.0	.1	.4	.3	.2	.0	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.0	.7	.1	.0	.0	.1	2.2	
5	0	12	60	118	88	22	4	6	11	477	
.6	.0	1.5	7.5	14.7	11.0	2.7	.5	.7	1.4	59.4	
										803	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	1.8	2.4	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	4.1	4.9	5.1	5.1	5.1	5.1	5.1	5.1
= OR >2000	12.4	15.0	15.6	15.6	15.6	15.6	15.6	15.6
= OR >1000	24.5	29.5	30.4	30.4	30.4	30.4	30.4	30.4
= OR >600	30.2	36.6	37.8	37.8	37.8	37.8	37.8	37.8
= OR >300	31.1	38.1	39.3	39.3	39.3	39.3	39.3	39.3
= OR >150	31.5	38.2	39.4	39.4	39.4	39.4	39.4	39.4
= OR >0	31.5	38.4	39.9	40.0	40.0	40.0	40.0	40.0
TOTAL	264	322	334	335	335	335	335	335

TOTAL NUMBER OF OBS: 834

PCT FREQ NH <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.2	7.8	15.2	15.4	14.7	7.7	8.8	7.5	14.2	.4	907

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.7	.2	.2	.0	.0	.1	*	.0	.7	2.1	2.1
	TOT %	.2	.7	.2	.2	.0	.0	.1	*	.0	.7	2.1	2.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.4	.0	*	*	.2	.3	.0	.0	.4	1.3	1.3
	TOT %	.0	.4	.0	*	*	.2	.3	.0	.0	.4	1.3	1.3
2<5	PCP	.2	.1	.0	.0	.1	.2	.2	.0	.0	.0	.7	.7
	NO PCP	.2	.1	.1	.1	.1	.1	.4	.3	.0	.1	1.4	1.4
	TOT %	.4	.2	.1	.1	.2	.3	.5	.3	.0	.1	2.1	2.1
5<10	PCP	.0	.0	.1	.1	.7	.6	.3	.1	.0	.0	1.9	1.9
	NO PCP	1.1	.4	.4	1.2	3.9	6.1	3.9	1.1	.0	2.0	20.0	20.0
	TOT %	1.1	.4	.5	1.3	4.6	6.7	4.2	1.1	.0	2.0	21.8	21.8
10+	PCP	.1	.2	*	.4	.4	.2	.1	.0	.0	.0	1.9	1.9
	NO PCP	.7	1.2	.6	7.6	27.2	22.2	7.0	2.0	.0	2.1	70.7	70.7
	TOT %	.8	1.4	.6	8.0	27.6	22.6	7.2	2.1	.0	2.1	72.5	72.5
TOT OBS													1071
TOT PCT		2.5	3.2	1.4	9.6	32.4	29.9	12.3	3.5	.0	5.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.0	*	*	.0	.0	.1	.2	.2
1/2<1	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.5	.6	.6
	4-10	.1	.4	.1	.1	*	*	.1	.1	.0	.0	.9	.9
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.5	.1	.1	*	*	.1	.1	.0	.5	1.6	1.6
1<2	0-3	.0	.1	*	*	.1	*	.1	*	.0	.3	.8	.8
	4-10	.1	.2	.0	.1	.1	.2	.3	.0	.0	.0	.9	.9
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.1	.0	.0	.0	.0	*	*	.0	.0	.1	.1
	TOT %	.1	.3	.1	.2	.2	.2	.4	.1	.0	.3	1.9	1.9
2<5	0-3	.1	.1	.1	*	*	.3	.1	.2	.0	1.0	1.9	1.9
	4-10	.3	.1	.1	.3	.5	.4	.6	.3	.0	.0	2.7	2.7
	11-21	.1	.0	.1	.0	.2	.1	.1	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.2	.2	.3	.7	.8	.8	.6	.0	1.0	5.1	5.1
5<10	0-3	.3	.0	.2	.3	.9	.7	.2	.2	.0	1.9	4.7	4.7
	4-10	.5	.5	.5	.8	2.5	4.6	2.8	1.1	.0	.0	13.2	13.2
	11-21	.3	.1	.1	.1	.8	1.2	.6	.2	.0	.0	3.4	3.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.1	.5	.7	1.3	4.3	6.5	3.6	1.4	.0	1.9	21.3	21.3
10+	0-3	.1	.1	.2	1.0	2.4	2.3	1.2	.5	.0	2.3	10.1	10.1
	4-10	.7	.5	.3	4.6	15.8	18.5	6.8	1.5	.0	.0	48.7	48.7
	11-21	.3	.6	.2	1.0	5.0	3.1	.7	.3	.0	.0	11.2	11.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.0	1.2	.7	6.6	23.2	23.9	8.7	2.3	.0	2.3	70.0	70.0
TOT OBS													1715
TOT PCT		2.7	2.7	1.8	8.6	28.5	31.5	13.6	4.5	.0	6.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY MGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	5499	7999				
00003	1.0	.5	1.0	2.9	12.7	10.7	1.5	.0	.5	2.0	32.7	67.3	205
06009	.8	.0	1.3	10.5	15.5	10.5	2.5	.4	.0	1.3	42.9	57.1	238
12015	.0	.0	1.8	8.6	14.0	8.6	3.6	.5	1.8	.0	38.9	61.1	221
18021	.4	.0	1.3	5.3	13.2	9.7	2.2	.9	.4	1.8	35.2	64.8	227
TOT	5	1	12	62	124	88	22	4	6	11	335	556	891
PCT	.6	.1	1.3	7.0	13.9	9.9	2.5	.4	.7	1.2	37.6	62.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
(GMT)							OBS
00003	.2	.2	1.3	5.9	20.7	71.6	454
06009	.0	2.5	2.0	4.8	22.1	68.6	398
12015	.2	2.5	3.2	3.8	22.6	67.7	527
18021	.5	1.3	.8	6.1	21.5	69.9	395
TOT	4	29	34	90	386	1231	1774
PCT	.2	1.6	1.9	5.1	21.8	69.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	< 150	< 600	< 1000	1000+	NH < 5/8	TOTAL
(GMT)	< 5000	< 1	< 5	AND 5+	AND 5+	OBS
00003	1.0	2.6	6.8	28.6	64.6	192
06009	.9	2.3	15.8	30.6	53.6	222
12015	.0	1.9	14.0	30.0	56.0	207
18021	.5	1.8	10.1	28.6	61.3	217
TOT	5	18	99	247	492	838
PCT	.6	2.1	11.8	29.5	58.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.3	.7	2.0	1.9	.3	47	5.2
80/84	.0	.0	.1	.7	1.3	14.8	36.3	3.9	516	57.1
75/79	.0	.0	.0	.0	.1	4.3	23.7	8.6	334	37.0
70/74	.0	.0	.0	.0	.0	.0	.1	.6	6	.7
TOTAL	0	0	1	9	19	193	560	121	903	100.0
PCT	.0	.0	.1	1.0	2.1	21.4	62.0	13.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	.4	.0	.3	.7	1.1	.9	.3	.0	1.2
80/84	1.4	1.7	.7	5.3	15.8	19.2	8.3	1.6	.0	3.2
75/79	1.0	1.0	.5	4.2	18.3	8.1	1.7	1.1	.0	1.2
70/74	.1	.0	.0	.0	.2	*	.2	.1	.0	.0
TOTAL	2.5	3.1	1.2	9.9	34.9	28.4	11.2	3.1	.0	5.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	87	83	82	80	76	74	70	79.9	852
06009	89	85	83	80	76	73	73	79.9	577
12015	97	89	86	82	78	74	73	81.9	871
18021	88	84	83	81	77	73	70	80.5	580
TOT	97	87	84	81	77	74	70	80.6	2880

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	1.4	14.9	69.8	14.0	84	222
06009	.0	.4	2.9	14.3	66.1	16.3	84	245
12015	.0	3.2	2.4	32.1	52.4	9.9	80	252
18021	.0	.9	2.7	23.7	58.9	13.8	83	224
TOT	0	11	22	202	581	127	83	943

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	59 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.2	2	.0	.2
11/13	.0	.0	.0	.1	.2	.0	.0	3	.0	.3
9/10	.0	.0	.0	.0	.2	.0	.0	2	.1	.1
7/8	.0	.0	.0	.0	.3	.1	.0	4	.0	.4
6	.0	.0	.0	.0	.3	.1	.0	4	.1	.3
5	.0	.0	.1	.2	.5	.1	.0	9	.0	.9
4	.0	.0	.3	.7	.5	.0	.0	15	.3	1.2
3	.0	.0	.2	1.0	.8	.0	.0	20	.0	2.1
2	.1	.0	.5	3.2	.2	.0	.0	39	.1	3.9
1	.0	.0	2.4	5.0	.2	.0	.0	74	.0	7.6
0	.0	.3	5.7	10.6	.4	.0	.0	166	.3	16.7
-1	.0	.4	15.5	11.6	.1	.0	.0	269	.1	27.5
-2	.0	.4	8.2	8.2	.0	.0	.0	164	.1	16.7
-3	.0	.8	5.6	2.2	.2	.0	.0	86	.0	8.8
-4	.0	.6	4.1	1.6	.0	.0	.0	62	.0	6.4
-5	.0	.3	2.4	.3	.0	.0	.0	29	.0	3.0
-6	.0	.1	.9	.4	.0	.0	.0	14	.0	1.4
-7/-8	.0	.6	.6	.0	.0	.0	.0	12	.0	1.2
TOTAL	1		454		39		2	974	11	963
PCT	.1	35	46.6	45.2	4.0	.3	.2	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.4
1-2	.0	.5	.3	.0	.0	.0	.8	.0	.6	.7	.0	.0	.0	1.3
3-4	.0	.1	.8	.0	.0	.0	.9	.0	.2	*	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.0	.0	.0	.0	1.9	.2	1.2	1.0	.0	.0	.0	2.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.0	.0	.0	.0	.0	.4	.7	2.1	.2	.0	.0	.0	3.0
1-2	.0	.4	.0	.0	.0	.0	.4	.2	4.1	.8	.0	.0	.0	5.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.0	.9
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.4	.2	.0	.0	.0	1.0	.8	9.0	1.8	.0	.0	.0	11.7

PERIOD: (OVER-ALL) 1963-1975

DECEMBER

AREA 0013 GULF OF GUINEA EAST
1.7N 6.0E

TABLE 18 (CONT.)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.0	3.7	.1	.0	.0	.0	4.8	1.8	5.3	.0	.0	.0	.0	7.1	
1-2	1.0	14.7	4.1	.0	.0	.0	19.8	.3	11.5	1.4	.0	.0	.0	13.1	
3-4	.2	6.4	5.6	.0	.0	.0	12.1	.0	2.5	2.3	.0	.0	.0	4.7	
5-6	.0	1.1	3.0	.0	.0	.0	4.1	.0	.2	1.4	.0	.0	.0	1.6	
7	.0	.2	.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	26.1	13.2	.0	.0	.0	41.4	2.1	19.5	5.1	.0	.0	.0	26.7	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.9	1.7	.2	.0	.0	.0	2.8	.5	.4	.0	.0	.0	.0	.9	
1-2	.3	3.9	.3	.0	.0	.0	4.5	.4	.8	.3	.0	.0	.0	1.4	
3-4	.0	.6	.5	.0	.0	.0	1.1	.0	.2	.2	.0	.0	.0	.3	
5-6	.0	.3	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	6.6	1.2	.0	.0	.0	9.0	.8	1.3	.5	.0	.0	.0	2.7	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	13.9	.5	.0	.0	.0	24.8	
1-2	2.0	35.6	7.7	.0	.0	.0	45.3	
3-4	.2	11.6	9.5	.0	.0	.0	21.3	
5-6	.0	2.2	5.2	.0	.0	.0	7.3	
7	.0	.5	.5	.0	.0	.0	.9	
8-9	.0	.2	.2	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.7	63.9	23.4	.0	.0	.0	100.0	640

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	5.2	19.6	14.8	5.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	3
6-7	.0	6.2	8.0	3.7	2.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	4
8-9	.0	4.3	4.6	2.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	3
10-11	.0	2.2	1.2	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	3
12-13	.0	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
>13	.0	.0	.0	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
INDET	5.7	7.0	2.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	2
TOTAL	84	304	246	104	28	7	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	775	3
PCT	10.8	39.2	31.7	13.4	3.6	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

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AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	11.1	9.5	.3	.0	.0	.0	.0	21.0	6.4	3.2	2.2	.0	1.6	1.2 65.4
NE	10.3	10.0	.8	.0	.0	.0	.0	20.7	3.0	2.3	8.8	.0	1.5	.0 64.4
E	13.1	7.2	1.0	.0	.0	.0	.0	21.3	1.4	4.6	4.6	.0	.3	.7 68.4
SE	3.6	1.3	1.0	.0	.0	.0	.0	5.9	3.5	3.2	1.4	.0	.5	.2 86.1
S	2.0	1.8	.7	.0	.0	.0	*	4.4	3.2	2.5	.0	.0	.4	* 89.1
SW	3.4	1.8	.8	.0	.0	.0	*	5.9	3.2	3.6	.0	.0	.6	.2 86.3
W	5.7	2.1	.8	.0	.0	.0	.0	8.6	3.8	3.6	1.1	.0	1.4	.0 81.7
NW	12.8	3.3	1.1	.0	.0	.0	.0	17.3	4.1	2.6	2.7	.0	1.1	.5 72.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	1.5	1.1	.4	.0	.0	.0	.0	2.9	3.1	2.3	5.5	.0	2.7	.1 83.8
TOT PCT	3.5	2.0	.8	.0	.0	.0	*	6.3	3.3	3.0	1.3	.0	.8	.2 85.5
TOT OBS:	14657													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	2.8	2.0	.7	.0	.0	.0	.0	5.5	3.2	7.1	.8	.0	.5	.1 83.3
06009	4.4	2.6	1.1	.0	.0	.0	.0	8.1	3.8	2.5	2.3	.0	.8	.2 82.9
12015	4.3	2.2	.6	.0	.0	.0	*	7.0	2.7	.7	1.4	.0	1.2	.1 87.2
18021	2.9	1.7	.6	.0	.0	.0	.0	5.1	3.1	2.3	1.0	.0	.7	.2 87.7
TOT PCT	3.6	2.1	.7	.0	.0	.0	*	6.4	3.2	3.1	1.4	.0	.8	.2 85.4
TOT OBS:	15166													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.3	.9	.2	*	*	.0		1.4	6.6	.8	1.5	1.5	2.5	1.9	1.1	.9	1.1	
NE	.2	.8	.2	*	*	.0		1.3	7.5	1.0	1.1	2.0	2.3	1.8	1.1	.9	1.0	
E	.4	1.2	.2	*	*	.0		1.8	6.9	1.4	1.9	2.3	2.3	2.6	1.6	1.1	1.0	
SE	.9	4.8	1.2	*	*	.0		6.9	7.6	6.5	6.6	8.4	6.0	7.9	6.5	6.6	6.4	
S	2.4	21.1	7.4	.2	*	.0		31.0	8.4	30.7	27.8	36.8	27.2	32.6	27.7	32.4	30.6	
SW	2.2	24.6	9.3	.2	*	.0		36.3	8.7	38.0	37.9	31.4	36.1	32.2	39.4	38.1	40.2	
W	1.2	9.8	2.7	.1	.0	.0		13.8	8.1	14.4	16.6	8.9	15.5	12.5	15.9	13.2	14.8	
NW	.5	2.4	.6	*	*	.0		3.5	7.5	3.1	3.9	2.5	5.1	3.9	4.1	2.8	3.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9							3.9	.0	4.1	2.7	6.1	2.9	4.7	2.6	4.1	2.0	
TOT OBS								33565			6428	3785	3803	2800	6367	3526	4105	2751
TOT PCT	12.0	65.6	21.7	.6	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.9	.5	.1	*	.0	1.4	6.6	1.1	1.9	1.6	1.0		
NE	.7	.5	.1	*	.0	1.3	7.5	1.0	2.1	1.5	.8		
E	1.2	.5	.1	*	.0	1.8	6.9	1.6	2.3	2.2	1.1		
SE	3.3	3.5	.2	*	.0	6.9	7.6	6.5	7.4	7.4	6.5		
S	11.2	18.6	1.2	*	.0	31.0	8.4	29.6	32.7	30.9	31.7		
SW	11.7	23.0	1.6	*	.0	36.3	8.7	38.0	33.5	34.7	38.9		
W	5.7	7.7	.5	*	.0	13.8	8.1	15.2	11.7	13.7	13.9		
NW	1.8	1.6	.1	*	.0	3.5	7.5	3.4	3.6	4.0	2.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.9					3.9		3.6	4.7	4.0	3.3		
TOT OBS						33565	8.0	10213	6603	9893	6856		
TOT PCT	40.3	55.8	3.7	.1	*		100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	3.6	7.6	66.7	21.5	.6	*	.0	8.1	100.0
06009	4.7	8.3	64.7	21.6	.7	*	.0	8.0	100.0
12015	4.0	9.1	65.2	21.0	.6	.1	.0	7.9	100.0
18021	3.3	7.3	65.5	23.3	.6	.1	.0	8.3	100.0
TOT								8.0	33565
PCT	3.9	8.1	65.6	21.7	.6	*	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.3	.5	6.4	
NE	.1	.2	.4	.4	5.5	
E	.2	.2	.5	.8	6.4	
SE	1.4	1.6	3.3	2.3	5.3	
S	6.3	7.8	15.7	11.5	5.4	
SW	4.3	5.5	12.5	9.4	5.5	
W	1.0	1.7	3.3	2.6	5.6	
NW	.2	.3	.5	.7	6.0	
VAR	.0	.0	.0	.0	.0	
CALM	1.0	.7	1.5	1.1	5.1	
TOT OBS					11193	5.4
TOT PCT	14.8	18.0	38.0	29.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
*	.0	*	.1	.2	.1	*	*	*	*	.5	
*	*	*	.1	.2	.2	.1	*	*	*	.6	
.1	*	.1	.1	.2	.2	.1	*	*	*	.7	
*	*	.1	.7	1.3	1.0	.3	.1	*	.1	4.9	
.1	*	.4	3.5	7.4	5.0	1.3	.3	.1	.4	22.8	
.2	*	.3	2.6	5.5	3.8	1.3	.4	.2	.5	17.0	
.1	*	.1	.6	1.6	1.0	.3	.1	*	.1	4.5	
*	*	*	.1	.3	.3	.1	*	*	.1	.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	*	*	.1	.5	.7	.2	*	*	.1	2.3	
.5	.1	1.1	7.9	17.2	12.2	3.7	1.0	.5	1.4	54.2	11193
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.7	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	2.2	2.7	2.9	2.9	2.9	2.9	2.9	2.9
* OR >3500	5.2	6.4	6.7	6.7	6.7	6.7	6.7	6.7
* OR >2000	14.8	18.1	18.7	18.8	18.8	18.8	18.8	18.8
* OR >1000	28.5	34.6	35.8	35.9	36.0	36.0	36.0	36.0
* OR >600	34.5	42.0	43.6	43.8	43.9	43.9	43.9	43.9
* OR >300	35.1	43.0	44.7	44.9	45.0	45.0	45.0	45.0
* OR >150	35.2	43.1	44.8	45.0	45.1	45.2	45.2	45.2
* OR >0	35.3	43.3	45.2	45.5	45.6	45.6	45.6	45.7

TOTAL NUMBER OF OBS: 11457

PCT FREQ NH <5/8: 54.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.5	8.0	13.5	13.7	12.1	8.7	9.9	8.6	18.5	.4	12125

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	*	*	*	.0	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	.1	.1	*	.1	.1	.1	.1	*	.0	.1	.7	
	TOT %	.1	.1	*	.1	.1	.1	.1	*	.0	.1	.8	
1<2	PCP	*	*	*	*	*	*	.1	*	.0	*	.2	
	NO PCP	*	*	*	*	*	.1	.1	*	.0	.1	.3	
	TOT %	*	.1	*	*	.1	.1	.1	*	.0	.1	.6	
2<5	PCP	.1	.1	.1	.1	.2	.3	.1	.1	.0	*	.9	
	NO PCP	.1	.1	.1	.1	.3	.3	.2	.1	.0	.2	1.4	
	TOT %	.1	.1	.1	.2	.5	.6	.3	.2	.0	.3	2.3	
5<10	PCP	.1	.1	.2	.2	.8	1.1	.4	.2	.0	.1	3.2	
	NO PCP	.5	.4	.4	1.2	5.2	6.8	2.9	.8	.0	1.2	19.3	
	TOT %	.6	.5	.5	1.4	6.0	7.9	3.3	1.0	.0	1.3	22.6	
10+	PCP	*	*	.1	.2	.6	.5	.2	.1	.0	*	1.8	
	NO PCP	.5	.6	.9	6.1	30.6	23.1	5.9	1.0	.0	3.1	71.8	
	TOT %	.5	.6	.9	6.3	31.2	23.7	6.1	1.1	.0	3.1	73.5	
TOT OBS													14629
TOT PCT		1.4	1.4	1.7	8.0	37.9	32.4	9.9	2.4	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	*	*	.0	.0	.0	.0	*	*	
	4-10	.0	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	*	
	22+	.0	*	.0	*	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	.1	*	.1	.1	.1	*	*	.0	.4	.1	
	11-21	*	*	*	*	*	*	*	*	.0	.1	.1	
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	*	.1	*	.1	.1	.1	.1	*	.0	.1	.7	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	*	*	*	*	.1	.1	.1	*	.0	.4	.1	
	11-21	.0	*	*	*	*	.1	.1	*	.0	.2	.1	
	22+	.0	*	*	*	.0	*	*	*	.0	*	*	
	TOT %	*	.1	*	*	.1	.2	.2	.1	.0	.1	.9	
2<5	0-3	*	*	*	*	.1	.1	*	.1	.0	.3	.8	
	4-10	.1	.1	.1	.1	.4	.6	.4	.2	.0	1.9	.1	
	11-21	*	*	.1	*	.2	.3	.1	.1	.0	.8	.1	
	22+	.0	*	*	*	*	*	*	*	.0	*	*	
	TOT %	.2	.1	.2	.2	.6	1.0	.5	.3	.0	.3	3.5	
5<10	0-3	.1	.1	.1	.2	.6	.5	.3	.1	.0	1.1	3.2	
	4-10	.3	.2	.3	.8	3.5	5.2	2.1	.7	.0	13.0	.1	
	11-21	.1	.1	.1	.2	1.4	2.2	.9	.2	.0	5.3	.1	
	22+	*	*	*	*	*	.1	*	*	.0	.2	.1	
	TOT %	.5	.4	.5	1.2	5.5	8.0	3.3	1.0	.0	1.1	21.6	
10+	0-3	.1	.1	.2	.5	1.9	1.7	.7	.3	.0	2.9	8.4	
	4-10	.3	.4	.7	3.9	18.3	18.2	5.9	1.0	.0	48.7	.1	
	11-21	.1	.1	.1	1.1	6.4	6.0	1.7	.3	.0	15.7	.1	
	22+	.0	*	*	*	.1	.1	*	*	.0	.3	.1	
	TOT %	.6	.6	1.0	5.5	26.7	25.9	8.3	1.5	.0	2.9	73.0	
TOT OBS													21286
TOT PCT		1.4	1.4	1.7	7.1	33.1	35.3	12.4	2.9	.0	4.6	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	3000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.1	*	.8	7.1	15.3	10.8	3.3	.6	.4	1.8	41.1	58.9	2677
06009	.5	.2	1.6	9.3	19.7	13.4	4.2	.7	.4	1.4	51.4	48.6	2967
12015	.2	.2	1.1	7.2	16.3	11.2	3.9	1.8	.7	.9	43.5	56.5	3198
18021	.2	.2	1.0	7.2	15.6	12.0	3.3	.6	.4	1.4	41.9	58.1	2938
TOT PCT	.5	.1	1.1	7.7	16.8	11.8	3.7	1.0	.5	1.3	44.6	55.4	11780 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.5	.5	3.4	21.1	74.3	5899
06009	.4	1.2	1.0	4.1	21.5	71.8	4773
12015	.2	.8	1.4	3.3	24.2	70.0	6273
18021	.1	.4	.7	3.2	20.2	75.3	4857
TOT PCT	.2	.7	.9	3.5	21.9	72.7	21802 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.1	2.0	10.3	32.6	57.1	2568
06009	.6	2.4	14.8	38.3	46.8	2903
12015	.2	1.6	11.1	33.9	54.9	3127
18021	.2	1.5	10.5	33.0	56.4	2859
TOT PCT	.5	1.9	11.7	34.6	53.7	11457 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.0	.0	.0	.0	*	*
90/94	.0	.0	.0	*	.1	.1	*	.0	.2	*
85/89	.0	.0	*	.1	.4	3.0	1.0	.2	4.6	*
80/84	.0	.0	*	.1	1.0	15.1	26.7	3.1	46.2	*
75/79	.0	.0	*	*	.4	6.2	23.3	8.0	37.9	*
70/74	.0	.0	.0	*	.1	1.2	6.0	3.5	10.9	*
65/69	.0	.0	.0	.0	.0	.0	.1	.1	.2	*
TOTAL PCT	.0	.0	*	.2	2.0	25.6	57.2	15.0	11560	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.0	.0	*	*	.1	*	*	.0	.0	*
.1	.1	.1	.3	1.4	1.5	.5	.1	.0	.5
.6	.6	.7	3.8	17.0	14.9	5.0	1.1	.0	2.6
.4	.5	.6	2.8	16.3	12.7	3.1	.7	.0	.9
.1	.1	.1	1.5	6.3	2.2	.2	.1	.0	.3
.0	.0	*	*	.1	*	.0	.0	.0	*
1.2	1.2	1.5	8.4	41.1	31.4	8.8	1.9	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	83	82	79	75	71	61	78.7	10290
06009	93	84	82	79	74	71	59	78.8	6696
12015	97	88	85	81	76	72	59	80.7	9953
18021	93	84	82	80	75	71	61	79.4	6913
TOT	97	86	84	80	75	71	59	79.5	33852

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	.7	17.2	65.3	16.7	84	2981
06009	.0	.1	1.0	19.0	60.0	19.8	84	2882
12015	.0	.6	4.3	38.9	45.6	10.6	81	3237
18021	.0	.3	1.7	26.0	58.1	13.9	83	2806
TOT	0	34	240	3040	6783	1809	83	11906

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	WG FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	*	6	.0	*
11/13	.0	.0	.0	.0	.0	*	*	.1	*	.0	16	.0	.1
9/10	.0	.0	.0	.0	*	*	.1	.1	*	*	32	*	.2
7/8	.0	.0	.0	.0	*	*	.2	.1	.1	*	54	*	.4
6	.0	.0	.0	*	*	.1	.1	.1	.1	.0	51	*	.4
5	.0	.0	.0	*	*	.2	.1	.2	.2	*	108	*	.8
4	.0	.0	*	*	.2	.4	.7	.4	.2	.0	250	*	1.8
3	.0	.0	.0	*	.2	.5	.6	.5	*	.0	275	*	2.0
2	.0	.0	.0	.1	.6	1.1	1.5	.9	*	.0	573	.1	4.1
1	.0	.0	*	.3	1.2	1.9	3.1	.8	*	.0	1004	.1	7.3
0	.0	.0	*	.9	2.4	5.4	7.3	.8	*	.0	2269	.2	16.5
-1	.0	.0	.0	.6	3.7	7.9	10.0	.4	.0	.0	3072	.2	22.5
-2	.0	.0	*	.3	3.3	6.5	7.0	.2	.0	.0	2344	.1	17.1
-3	.0	.0	.0	.3	2.4	4.4	2.8	.1	.0	.0	1343	.1	9.7
-4	.0	.0	.0	.2	1.6	2.9	1.9	*	.0	.0	913	.1	6.6
-5	.0	*	*	.2	1.4	1.9	1.1	.0	.0	.0	631	*	4.5
-6	.0	.0	.0	.1	.5	.7	.2	.0	.0	.0	212	*	1.5
-7/-8	.0	.0	*	.1	.7	.6	.1	.0	.0	.0	211	*	1.5
-9/-10	.0	.0	.0	.1	.2	.1	*	.0	.0	.0	64	*	.4
-11/-13	.0	.0	*	.1	.1	*	.0	.0	.0	.0	40	.0	.3
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	32	.0	.2
-17/-19	.0	*	.2	*	.0	.0	.0	.0	.0	.0	41	*	.3
-20/-22	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	47	.0	.3
-23/-25	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	48	.0	.4
-26/-30	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL											13639		
PCT	*	.6	.5	3.4	18.5	34.7	30.9	4.6	.7	.1	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	*	.0	.0	.0		.4	.1	.2	*	.0	.0	.0		.3
1-2	*	.3	.1	.0	.0	.0		.5	*	.3	.2	.0	.0	.0		.5
3-4	*	.1	.1	*	.0	.0		.2	.0	.1	.1	.0	.0	.0		.2
5-6	.0	*	*	.0	*	.0		*	.0	.0	.1	*	*	.0		.1
7	.0	.0	.0	.0	.0	.0		.0	.0	*	*	.0	.0	.0		*
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	.0		*
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	.6	.3	*	*	.0		1.1	.1	.6	.3	*	*	.0		1.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	*	.0	.0	.0		.4	.3	1.0	.1	.0	.0	.0		1.4
1-2	.1	.4	.1	.0	.0	.0		.6	.2	3.1	.7	.0	.0	.0		4.1
3-4	*	.2	.1	*	.0	.0		.3	.0	1.1	.8	*	.0	.0		1.9
5-6	.0	.0	.1	*	.0	.0		.1	.0	.1	.4	.0	*	.0		.5
7	.0	.0	*	*	.0	.0		*	.0	*	*	*	.0	.0		.1
8-9	.0	.0	*	*	.0	.0		*	.0	*	*	.0	.0	.0		*
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0		*
12	.0	.0	.0	.0	.0	.0		.0	.0	*	*	.0	.0	.0		*
13-16	.0	.0	.0	.0	.0	.0		.0	.0	*	*	.0	.0	.0		*
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	.9	.4	*	.0	.0		1.5	.6	5.4	2.0	*	*	.0		8.0

PERIOD: (OVER-ALL) 1963-1976

ANNUAL

AREA 0013 GULF OF GUINEA EAST
1.8M 6.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.7	.2	.0	.0	.0	4.8	1.1	4.2	.2	.0	.0	.0	5.5
1-2	.8	16.6	4.0	.0	.0	.0	21.4	.7	13.5	3.5	.0	.0	.0	17.6
3-4	.1	5.4	4.7	.1	.0	.0	10.2	*	3.7	3.4	.1	.0	.0	7.2
5-6	.0	.7	2.4	*	.0	.0	3.1	.0	.4	1.6	*	.0	.0	2.0
7	.0	.1	.3	*	.0	.0	.4	.0	.1	.2	*	.0	.0	.3
8-9	.0	.0	.1	*	.0	.0	.1	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	*	.0	.0	*	.0	*	*	.0	.0	.0	.1
12	.0	*	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
17-19	.0	*	.0	.0	.0	.0	*	.0	*	*	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	26.4	11.7	.2	.0	.0	40.1	1.8	21.8	8.9	.2	.0	.0	32.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.5	.1	.0	.0	.0	2.0	.2	.3	*	.0	.0	.0	.5	
1-2	.3	3.6	.7	.0	.0	.0	4.6	.1	.6	.2	.0	.0	.0	.8	
3-4	*	.8	.8	*	.0	.0	1.7	*	.1	.1	.0	.0	.0	.3	
5-6	.0	.1	.3	*	.0	.0	.4	.0	*	*	.0	.0	.0	.1	
7	.0	*	*	*	.0	.0	.1	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.0	1.9	.1	.0	.0	8.8	.3	1.0	.3	.0	.0	.0	1.6	94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.2	11.4	.6	.0	.0	.0	21.2	
1-2	2.4	37.9	9.4	.0	.0	.0	49.7	
3-4	.2	11.2	9.9	.3	.0	.0	21.6	
5-6	.0	1.4	4.7	.1	*	.0	6.2	
7	.0	.2	.6	.1	.0	.0	.9	
8-9	.0	*	.1	*	.0	.0	.2	
10-11	.0	*	.1	*	.0	.0	.1	
12	.0	*	*	.0	.0	.0	*	
13-16	.0	.0	*	.0	.0	.0	*	
17-19	.0	*	*	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	62.1	25.4	.5	*	.0	100.0	9436

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.6	19.4	13.2	4.4	.8	.2	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4746	3
6-7	*	4.0	8.0	5.2	1.4	.3	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2155	4
8-9	*	1.5	3.4	2.8	1.1	.4	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1065	4
10-11	.0	1.8	1.4	1.2	.4	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	565	4
12-13	.0	.0	1.2	.6	.2	.1	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234	4
>13	.0	.0	.0	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	7
INDET	6.9	6.8	4.6	1.7	.6	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2408	2
TOTAL																					11209	3
PCT	11.5	33.5	31.9	15.9	4.5	1.4	.7	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

TABLE 20

AREA 0013 GULF OF GUINEA EAST
1.8N 6.0E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	.0
89/90	.0	.1	.5	.4	.2	.0	.0	.0	.0	.0	.0	.1	38	.1
87/88	.5	1.3	2.4	3.2	.9	.2	.1	.0	.0	.0	.0	.1	250	.8
85/86	4.4	10.5	15.3	19.1	12.2	5.2	.2	.1	.0	.0	.4	1.8	2.1	1951 6.1
83/84	30.0	44.5	46.2	43.2	36.1	9.5	1.4	.3	.7	2.3	10.4	21.9	6729	21.0
81/82	50.6	38.8	32.5	28.9	33.7	35.0	10.6	3.1	5.5	21.4	42.5	46.3	9426	29.4
79/80	11.0	4.1	2.4	4.2	9.4	23.2	28.5	14.3	21.4	37.5	30.8	21.3	5518	17.2
77/78	2.3	.4	.4	1.0	3.6	9.1	25.7	38.5	44.2	29.8	11.8	6.1	4480	14.0
75/76	.9	.1	.1	.1	2.5	7.4	13.3	27.3	18.1	6.4	2.1	1.1	1928	6.0
73/74	.2	.2	.1	.0	.8	6.5	9.2	11.2	8.1	1.8	.3	.4	1006	3.1
71/72	.1	.0	.0	.0	.3	2.2	6.6	5.8	1.6	.2	.1	.1	447	1.4
69/70	.1	.0	.0	.0	.1	1.0	2.3	1.9	.3	.2	.0	.0	152	.5
67/68	.0	.0	.0	.0	.0	.5	1.3	1.1	.0	.0	.0	.1	83	.3
65/66	.0	.0	.0	.0	.0	.1	.6	.4	.0	.0	.0	.0	29	.1
63/64	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	7	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2809	2485	2860	2664	2981	2572	2708	2491	2582	2514	2711	2671	32048	100.0
MEAN	81.9	82.8	83.2	83.3	82.2	79.6	77.1	76.3	77.3	79.0	80.5	81.3	80.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1010	1011	1011	1008	1009	1010	1010	1815
FEB	1010	1009	1010	1010	1011	1008	1009	1010	1010	1660
MAR	1010	1009	1010	1011	1011	1008	1009	1010	1010	1774
APR	1010	1009	1010	1011	1011	1008	1009	1009	1010	1796
MAY	1012	1010	1011	1012	1012	1010	1011	1011	1011	1826
JUN	1013	1012	1013	1014	1014	1012	1012	1013	1013	1692
JUL	1014	1014	1014	1015	1015	1013	1013	1014	1014	1812
AUG	1014	1013	1014	1015	1015	1013	1013	1014	1014	1580
SEP	1013	1012	1014	1014	1014	1012	1012	1013	1013	1431
OCT	1012	1011	1013	1013	1013	1010	1011	1012	1012	1635
NOV	1011	1010	1012	1012	1011	1009	1010	1011	1011	1823
DEC	1011	1010	1011	1011	1011	1009	1010	1011	1011	1708
ANN	1012	1011	1012	1012	1012	1010	1011	1012	1012	20592
OBS	4166	1990	3252	1255	4209	1531	3364	1185		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1004	1007	1009	1010	1011	1013	1015	1016
FEB	1002	1005	1006	1008	1010	1011	1013	1015	1017
MAR	1002	1004	1006	1008	1010	1011	1013	1017	1019
APR	1002	1003	1007	1009	1010	1011	1013	1017	1018
MAY	1004	1006	1008	1010	1011	1013	1015	1018	1020
JUN	1005	1006	1009	1012	1013	1014	1016	1018	1020
JUL	1006	1009	1011	1013	1014	1016	1017	1018	1020
AUG	1006	1009	1011	1013	1014	1015	1017	1018	1020
SEP	1004	1008	1010	1012	1013	1014	1016	1017	1018
OCT	1004	1007	1009	1011	1012	1013	1015	1016	1019
NOV	1003	1007	1008	1010	1011	1012	1014	1016	1018
DEC	1003	1006	1007	1009	1011	1012	1014	1015	1017

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1867-1976

JANUARY

AREA 0014 LUANDA NW
5.95 8.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	11.4	.0	.0	.0	.0	.0	.0	11.4	.0	8.6	.0	.0	.0	.0	80.0
NE	9.8	.0	.0	.0	.0	.0	.0	9.8	9.8	.0	4.9	.0	.0	.0	75.6
E	6.2	.0	.0	.0	.0	.0	.0	6.2	.0	6.2	3.1	.0	.0	.0	84.6
SE	2.5	.7	.0	.0	.0	.0	.0	3.2	.7	.8	.0	.0	.0	.0	96.0
S	.9	.3	.2	.0	.0	.0	.0	1.4	2.2	1.1	.0	.0	.0	.0	95.4
SW	.8	.5	.2	.0	.0	.0	.0	1.5	3.4	1.9	.0	.0	.4	.0	92.7
W	.0	2.5	.0	.0	.0	.0	.0	2.5	4.9	4.6	.0	.0	.0	.0	83.4
NW	4.9	7.4	.0	.0	.0	.0	.0	12.3	4.9	12.3	.0	.0	4.9	.0	65.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	96.0
TOT PCT	1.3	.7	.2	.0	.0	.0	.0	2.1	2.6	1.8	.1	.0	.2	.0	93.4
TOT OBS:	1177														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	1.0	.7	.0	.0	.0	.0	.0	1.7	1.3	5.3	.0	.0	.3	.0	91.7
06009	1.7	1.0	.3	.0	.0	.0	.0	3.1	3.8	1.0	.0	.0	.0	.0	92.4
12015	.6	.6	.3	.0	.0	.0	.0	1.6	2.5	.0	.3	.0	.0	.0	95.6
18021	2.0	.7	.0	.0	.0	.0	.0	2.7	2.7	1.4	.0	.0	.3	.0	93.2
TOT PCT	1.3	.7	.2	.0	.0	.0	.0	2.2	2.6	1.9	.1	.0	.2	.0	93.3
TOT OBS:	1204														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	.5	.2	.0	.0	.0		1.0	6.0	1.3	3.4	1.4	.0	.3	.7	.5	.0	
NE	.3	.9	.4	.0	.0	.0		1.1	5.7	.8	2.0	1.9	.0	1.3	1.3	.3	1.9	
E	.3	.7	.3	.0	.0	.0		1.2	7.2	1.4	3.4	1.5	.0	.9	1.0	.9	1.9	
SE	1.2	7.4	2.0	.4	.4	.0		10.7	8.0	8.5	7.7	12.1	11.3	14.4	7.0	10.7	6.5	
S	3.0	31.5	9.5	.1	.0	.0		44.1	8.3	42.0	34.3	45.0	46.3	47.2	38.1	48.7	42.6	
SW	2.6	20.2	3.5	.0	.0	.0		26.3	7.3	26.9	26.0	24.2	35.0	23.8	35.6	24.1	37.0	
W	1.6	5.7	.5	.0	.0	.0		7.8	6.0	9.8	11.6	4.8	4.2	4.7	12.7	8.8	8.3	
NW	.6	2.4	.2	.0	.0	.0		3.2	5.9	3.3	5.9	2.9	1.7	2.8	2.3	3.9	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.4							4.4	.0	5.9	5.7	6.2	1.7	4.4	1.3	2.3	1.9	
TOT DBS	300	1441	336	3	1	0	2081		7.3	426	175	385	60	432	153	396	54	
TOT PCT	14.4	69.2	16.1	.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.6	.4	.4	.0	.0	.0	.0	1.0	6.0	2.0	1.2	1.4	.4
NE	.8	.3	.4	.0	.0	.0	.0	1.1	5.7	1.2	1.6	1.3	.4
E	.7	.6	.4	.0	.0	.0	.0	1.3	7.2	2.0	1.3	.9	1.0
SE	4.0	6.6	1.1	.1	.0	.0	.0	10.7	8.0	8.3	12.0	12.5	10.2
S	16.0	27.0	1.0	.4	.0	.0	.0	44.1	8.3	39.8	45.2	44.8	48.0
SW	12.9	13.0	.4	.0	.0	.0	.0	26.3	7.3	26.7	25.6	26.9	25.6
W	5.2	2.5	.1	.0	.0	.0	.0	7.8	6.0	10.3	4.7	6.8	8.7
NW	2.3	.9	.4	.0	.0	.0	.0	3.2	5.9	4.0	2.7	2.7	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	5.8	5.6	3.6	2.2
TOT DBS	974	1070	35	2	0	2081		7.3		601	445	585	450
TOT PCT	46.8	51.4	1.7	.1	.0			100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	5.8	11.1	69.2	13.8	.0	.0	.0	6.8	100.0	601
0600	5.6	9.7	67.6	16.6	.4	.0	.0	7.4	100.0	445
1200	3.6	9.4	70.3	16.6	.2	.0	.0	7.5	100.0	585
1800	2.2	9.8	69.6	18.2	.0	.2	.0	7.6	100.0	450
TOT	91	209	1441	336	3	1	0	7.3		2081
PCT	4.4	10.0	69.2	16.1	.1	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.3	.3	7.0	
NE	*	.0	.6	.2	6.7	
E	.4	.1	.2	.4	4.7	
SE	2.4	2.4	5.0	2.2	4.9	
S	9.3	11.7	21.4	11.6	5.1	
SW	3.0	4.9	7.4	5.8	5.3	
W	.7	1.2	1.0	1.7	5.3	
NW	.2	.4	.4	.7	5.5	
VAR	.0	.0	.0	.0	.0	
CALM	1.3	.8	1.1	.9	4.5	
TOT OBS	183	227	344	251	1055	5.1
TOT PCT	17.3	21.5	37.3	23.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT., NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.1	
NE	.0	.0	.1	*	.1	.0	.1	.0	.0	.0	.5	
E	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.9	
SE	*	.0	.1	.8	2.0	1.3	.6	.0	*	.1	7.0	
S	.2	.1	.3	4.3	6.9	6.6	1.7	.6	.1	.2	33.0	
SW	.1	*	.3	1.1	2.8	2.5	1.0	.3	.1	.3	12.6	
W	.0	.0	.0	.3	.9	.5	.4	.0	.0	.0	2.5	
NW	.1	.0	.0	.2	.2	.1	.1	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.4	.8	.1	.0	.0	.0	.0	2.7	
TOT OBS	4	1	8	77	142	126	43	9	2	7	636	1055
TOT PCT	.4	.1	.8	7.3	13.5	11.9	4.1	.9	.2	.7	60.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	4.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8
= OR >2000	15.4	17.4	17.5	17.5	17.6	17.6	17.6	17.6
= OR >1000	27.7	30.7	31.0	31.1	31.3	31.3	31.3	31.3
= OR >600	33.5	37.7	38.0	38.3	38.5	38.5	38.5	38.5
= OR >300	33.7	38.2	38.7	39.0	39.2	39.2	39.2	39.2
= OR >150	33.7	38.2	38.7	39.0	39.2	39.2	39.3	39.3
= OR >0	33.9	38.5	39.0	39.4	39.6	39.6	39.7	39.7
TOTAL	362	411	417	421	423	423	424	424

TOTAL NUMBER OF OBS: 1068

PCT FREQ NM <5/8: 60.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	5.9	9.0	17.6	14.6	13.5	7.8	9.8	8.0	13.7	.3	1122

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
1<2	PCP	.0	.0	.1	.1	.0	.0	.1	*	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.1	.1	.1	*	.0	.0	.4	
2<5	PCP	.0	.1	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	NO PCP	.0	.1	.0	*	.1	.1	.1	*	.0	.0	.3	
	TOT %	.0	.2	.0	.1	.2	.2	.1	.1	.0	.0	.9	
5<10	PCP	.1	.0	.0	.3	.2	.1	.0	.0	.0	.0	.6	
	NO PCP	.1	.2	.3	.7	3.6	2.3	1.2	.3	.0	.3	9.2	
	TOT %	.2	.2	.3	1.0	3.8	2.4	1.2	.3	.0	.3	9.8	
10+	PCP	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	NO PCP	.5	.5	1.0	11.5	47.8	18.2	3.7	1.2	.0	3.7	88.2	
	TOT %	.5	.5	1.0	11.5	48.2	18.4	3.7	1.2	.0	3.7	88.7	
TOT OBS													1176
TOT PCT		.7	.9	1.4	12.7	52.3	21.0	5.1	1.7	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.1	.0	.0	.1	.1	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.1	.1	.1	*	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	
	4-10	.0	.2	.0	.1	.2	.2	.1	*	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.1	.2	.3	.2	.1	.0	.0	1.0	
5<10	0-3	.1	.1	.1	.1	.4	.4	.3	.1	.0	.5	2.1	
	4-10	.1	.1	.2	.6	3.3	2.3	.7	.2	.0	.0	7.4	
	11-21	.0	.0	.0	.2	.5	.2	.3	.0	.0	.0	1.3	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.2	.3	.9	4.2	2.9	1.3	.3	.0	.5	10.9	
10+	0-3	.1	.0	.1	.9	2.3	2.1	1.0	.3	.0	3.5	10.2	
	4-10	.2	.4	.5	7.5	33.0	14.5	2.5	1.0	.0	.0	59.7	
	11-21	.1	*	.3	2.7	11.4	2.7	.1	.1	.0	.0	17.4	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.5	.4	.9	11.1	46.8	19.3	3.6	1.4	.0	3.5	87.5	
TOT OBS													1308
TOT PCT		.7	.8	1.2	12.2	51.4	22.6	5.2	1.9	.0	4.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.0	.4	4.7	14.3	8.9	2.3	.8	.4	.8	33.3	66.7	258
06009	.0	.4	1.4	11.2	13.4	14.1	5.4	.7	.0	.4	47.1	52.9	276
12015	.0	.0	.3	5.5	12.8	12.1	2.4	.7	.0	1.4	35.3	64.7	289
18021	.7	.0	.7	6.4	13.2	10.7	5.3	1.1	.4	.4	38.8	61.2	281
TOT PCT	4 .4	1 .1	8 .7	77 7.0	148 13.4	127 11.5	43 3.9	9 .8	2 .2	8 .7	427 38.7	677 61.3	1104 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.9	14.5	84.6	337
06009	.3	.0	.3	1.3	10.9	87.2	320
12015	.0	.0	.6	1.1	9.3	89.0	356
18021	.0	.6	.6	.6	9.3	88.8	321
TOT PCT	1 .1	2 .1	5 .4	13 1.0	147 11.0	1334 87.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	1.2	6.9	28.3	64.8	247
06009	.0	1.9	14.1	34.2	51.7	269
12015	.0	.4	6.5	30.2	63.3	278
18021	.7	2.2	9.1	29.9	60.9	274
TOT PCT	4 .4	15 1.4	98 9.2	328 30.7	642 60.1	1068 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
85/89	.0	.0	.0	.0	.5	1.0	.6	.0	21	2.1
80/84	.0	.0	.0	.1	2.6	19.1	25.5	4.6	525	51.8
75/79	.0	.0	.0	.0	1.0	12.8	20.3	10.0	447	44.1
70/74	.0	.0	.0	.0	.0	.1	.7	.9	17	1.7
65/69	.0	.0	.0	.0	.0	.0	.2	.0	2	.2
TOTAL	0	0	0	2	41	334	479	157	1013	100.0
PCT	.0	.0	.0	.2	4.0	33.0	47.3	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.5	1.0	.3	.1	.1	.0	.0
.3	.1	.7	6.7	28.3	10.8	2.1	.8	.0	1.9
.3	.3	.4	5.4	22.5	10.0	2.8	.7	.0	1.7
.1	.0	.0	.1	.6	.2	.2	.0	.0	.4
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.7	.4	1.2	12.9	52.6	21.3	5.3	1.6	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	83	82	79	75	73	69	78.6	608
06009	90	85	82	79	75	72	68	79.1	435
12015	92	88	86	81	77	74	73	81.1	580
18021	86	85	82	80	76	74	68	79.5	443
TOT	92	86	84	80	75	73	68	79.6	2066

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.5	24.4	47.4	26.7	85	266
06009	.0	.4	.8	28.3	54.2	16.3	83	251
12015	.0	.4	10.1	44.0	37.7	7.8	79	268
18021	.0	.0	3.2	35.9	49.4	11.6	82	251
TOT	0	2	41	344	487	162	82	1036

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
6	.0	.0	.1	.1	.2	.0	.0	4	.0	.4
5	.0	.0	.1	.2	.6	.5	.0	16	.0	1.5
4	.0	.0	.1	.5	1.2	.8	.0	28	.0	2.6
3	.0	.0	.1	.5	1.4	.1	.0	22	.0	2.0
2	.0	.0	.1	1.7	4.6	.4	.0	74	.1	6.7
1	.0	.1	.4	2.0	4.3	.1	.0	75	.0	6.8
0	.1	.0	.5	8.4	9.7	.1	.0	206	.0	18.8
-1	.0	.2	.7	14.5	7.2	.0	.0	248	.0	22.6
-2	.0	.0	1.1	11.8	3.7	.0	.0	181	.0	16.5
-3	.0	.0	1.1	7.0	1.6	.0	.0	106	.0	9.7
-4	.0	.0	.5	4.5	1.1	.0	.0	67	.0	6.1
-5	.0	.1	1.0	1.7	.2	.0	.0	33	.0	3.0
-6	.0	.0	.5	.5	.0	.0	.0	11	.0	1.0
-7/-8	.0	.0	.5	.6	.0	.0	.0	12	.0	1.1
-9/-10	.0	.0	.2	.3	.0	.0	.0	5	.0	.5
-11/-13	.0	.0	.2	.0	.0	.0	.0	2	.0	.2
-14/-16	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	2	5	78	595	392	22	1	1095	1	1094
PCT	.2	.5	7.1	54.3	35.8	2.0	.1	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
1-2	.1	.4	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.5	.1	.0	.0	.0	1.0	.0	.9	.0	.0	.0	.0	.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	.9	.0	.0	.0	.0	.9
1-2	.0	.7	.1	.0	.0	.0	.8	.6	5.0	1.0	.0	.0	.0	6.6
3-4	.0	.0	.1	.0	.0	.0	.1	.0	2.4	1.5	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.2	.0	.0	.0	1.1	.7	8.5	3.2	.0	.1	.0	12.5

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0014 LUANDA NW
5.95 8.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	5.2	.0	.0	.0	.0	.0	5.0	.9	1.3	.1	.0	.0	.0	.0	2.3
1-2	1.1	24.5	5.2	.0	.0	.0	30.8	.4	9.2	1.1	.0	.0	.0	.0	.0	10.6
3-4	.3	9.3	5.7	.1	.0	.0	15.4	.1	2.6	1.5	.0	.0	.0	.0	.0	4.2
5-6	.1	.7	2.1	.0	.0	.0	3.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	39.9	13.2	.1	.0	.0	55.5		1.5	13.6	3.0	.0	.0	.0	.0	18.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.5	.7	.1	.0	.0	.0	.0	1.3	.4	.3	.0	.0	.0	.0	.0	.7	
1-2	.3	1.6	.1	.0	.0	.0	.0	2.0	.2	.7	.0	.0	.0	.0	.0	.8	
3-4	.0	.4	.4	.0	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	2.6	.6	.0	.0	.0	.0	4.0	.6	1.3	.1	.0	.0	.0	.0	1.9	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	8.6	.3	.0	.0	.0	17.4	
1-2	2.6	42.2	7.5	.0	.0	.0	52.3	
3-4	.8	14.8	9.1	.1	.0	.0	24.9	
5-6	.3	1.5	2.9	.0	.0	.0	4.7	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.1	.0	.0	.1	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.3	67.2	20.2	.1	.1	.0	100.0	723

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	20.6	13.3	4.7	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	449	2
6-7	.1	4.0	8.6	3.6	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	3
8-9	.0	.8	2.4	2.4	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	4
10-11	.0	3.4	2.1	2.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	4
12-13	.0	.0	1.6	.8	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	5
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	4.6	6.0	4.8	1.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	2
TOTAL	112	332	313	151	26	17	2	1	0	0	0	0	0	0	0	0	0	0	0	954	3
PCT	11.7	34.8	32.8	15.8	2.7	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1976
(OVER-ALL) 1867-1976

FEBRUARY

AREA 0014 LUANDA NW
5.95 8.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	23.5	.0	.0	.0	.0	.0	.0	23.5	15.7	.0	7.8	.0	.0	.0	52.9
NE	7.9	5.3	.0	.0	.0	.0	.0	13.2	.0	0.6	.0	.0	.0	.0	80.3
E	8.7	.0	.0	.0	.0	.0	.0	8.7	2.6	2.6	.0	.0	2.6	.0	83.5
SE	1.0	.3	.5	.0	.0	.0	.0	1.8	1.2	2.9	.0	.0	.1	.0	94.0
S	.7	.3	.5	.0	.0	.0	.0	1.4	1.0	1.5	.0	.0	.2	.0	95.9
SW	.2	.8	.5	.0	.0	.0	.0	1.5	2.1	3.4	.5	.0	.0	.0	92.6
W	7.3	.0	3.3	.0	.0	.0	.0	10.6	.0	4.5	1.2	.0	.0	.0	84.9
NW	5.4	7.1	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.6	.6	.6	.0	.0	.0	.0	2.7	1.3	2.2	.2	.0	.2	.0	93.4
TOT OBS:	1209														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.0	.3	.6	.0	.0	.0	.0	1.9	1.3	6.5	.6	.0	.3	.0	89.6
06009	1.9	1.3	1.0	.0	.0	.0	.0	4.2	2.9	.3	.3	.0	.0	.0	92.3
12015	1.9	.6	.6	.0	.0	.0	.0	3.1	.3	.3	.3	.0	.3	.0	95.7
18021	1.7	.3	.0	.0	.0	.0	.0	2.0	1.7	2.4	.0	.0	.0	.0	93.9
TOT PCT	1.6	.6	.6	.0	.0	.0	.0	2.8	1.5	2.3	.3	.0	.2	.0	92.9
TOT OBS:	1235														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	1.0	.2	.0	.0	.0	1.4	6.2	.7	2.9	1.1	1.6	1.6	1.1	1.4	3.2		
NE	.2	1.1	.3	.0	.0	.0	1.6	7.3	1.3	.9	3.1	2.4	1.5	.4	.9	1.6		
E	.3	2.0	.1	.0	.0	.0	2.4	8.4	1.9	3.9	3.4	1.2	3.9	.8	.7	.8		
SE	1.0	10.4	1.6	.1	.0	.0	13.0	7.7	12.0	11.1	14.5	21.8	14.7	8.3	12.1	10.3		
S	3.4	33.0	7.9	.0	.0	.0	44.3	8.0	41.4	38.6	44.1	40.3	44.9	49.1	46.9	51.2		
SW	2.2	17.5	3.0	.1	.0	.0	22.8	7.3	26.1	22.6	21.1	23.4	19.8	25.6	22.9	25.0		
W	1.0	5.2	.6	.0	.0	.0	6.8	6.6	8.3	10.9	4.3	4.4	5.6	7.6	7.9	6.3		
NW	.3	2.6	.6	.0	.0	.0	3.5	7.5	4.6	5.1	3.7	3.2	1.6	4.2	3.7	1.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.3						4.3	.0	3.6	4.1	4.8	1.6	6.4	3.0	3.5	.0		
TOT OBS	257	1453	284	2	0	0	1996		7.2		415	147	374	62	435	132		
TOT PCT	12.9	72.8	14.2	.1	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00 03	06 09	12 15	18 21	
N	.9	.4	.1	.0	.0		1.4	6.2	1.3	1.2	1.5	1.7	
NE	.9	.7	.0	.0	.0		1.6	7.3	1.2	3.0	1.2	1.0	
E	1.3	1.1	.0	.0	.0		2.4	6.4	2.4	3.1	3.2	.7	
SE	5.2	7.6	.2	.0	.0		13.0	7.7	11.7	15.5	13.2	11.8	
S	17.0	26.4	.8	.0	.0		44.3	8.0	40.7	43.5	45.9	47.6	
SW	11.0	11.6	.2	.0	.0		22.8	7.3	25.2	21.4	21.1	23.2	
W	4.0	2.7	.2	.0	.0		6.8	6.6	8.9	4.3	6.0	7.7	
NW	1.7	1.7	.1	.0	.0		3.5	7.5	4.7	3.6	2.2	3.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.3						4.3	.0	3.7	4.4	5.6	3.0	
TOT OBS	924	1043	29	0	0	1996		7.2	562	436	567	431	
TOT PCT	46.3	52.3	1.5	.0	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.7	9.1	74.6	12.3	.4	.0	.0	.0	7.1	100.0	562
06009	4.4	7.8	74.8	13.1	.0	.0	.0	.0	7.1	100.0	436
12015	5.6	9.3	70.2	14.8	.0	.0	.0	.0	7.2	100.0	567
18021	3.0	7.9	71.9	17.2	.0	.0	.0	.0	7.6	100.0	431
TOT	85	172	1453	284	2	0	0	0	7.2		1996
PCT	4.3	8.6	72.8	14.2	.1	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL DBSCD	MEAN CLOUD COVER
N	.0	.1	.2	.8		7.1
NE	.0	.2	.5	.9		7.0
E	.0	.2	1.0	1.0		6.5
SE	2.3	4.1	5.3	2.1		4.7
S	11.8	13.6	16.9	5.9		4.4
SW	4.5	3.9	8.4	4.1		4.9
W	.7	.6	1.9	1.4		5.4
NW	.1	.7	.7	.8		5.7
V4R	.0	.0	.0	.0		.0
CALM	1.2	1.3	2.0	.8		4.3
TOT OBS	219	262	391	189	1061	4.8
TOT PCT	20.6	24.7	36.9	17.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.1	.3	.3	.0	.0	.0	.0	.3	
NE	.0	.0	.0	.2	.4	.3	.2	.0	.0	.0	.1	
E	.0	.0	.0	.3	.3	.3	.0	.0	.0	.0	.3	
SE	.0	.0	.0	.4	.8	2.0	.7	.0	.1	.0	9.8	
S	.0	.0	.2	2.1	5.3	3.2	.7	.2	.4	.2	36.0	
SW	.1	.0	.2	1.0	2.8	1.7	.7	.1	.2	.1	14.0	
W	.2	.0	.1	.4	.7	.4	.2	.1	.0	.0	2.4	
NW	.0	.0	.0	.3	.2	.2	.0	.1	.1	.0	1.4	
V4R	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.2	.2	.4	.1	.0	.0	4.1	
TOT OBS	3	0	7	53	116	92	31	6	8	8	737	1061
TOT PCT	.3	.0	.7	5.0	10.9	8.7	2.9	.6	.8	.8	69.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	4.3	4.8	4.9	4.9	4.9	4.9	4.9	4.9
= OR >2000	12.4	13.6	13.7	13.7	13.7	13.7	13.7	13.7
= OR >1000	22.0	24.3	24.6	24.7	24.7	24.7	24.7	24.7
= OR >600	26.2	29.1	29.5	29.7	29.7	29.7	29.7	29.7
= OR >300	26.8	29.7	30.1	30.4	30.4	30.4	30.4	30.4
= OR >150	26.8	29.7	30.1	30.4	30.4	30.4	30.4	30.4
= OR >0	26.9	29.9	30.4	30.7	30.7	30.7	30.7	30.7
TOTAL	299	322	327	330	330	330	330	330

TOTAL NUMBER OF OBS: 1076

PCT FREQ NH <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
6.9	11.8	18.3	18.8	12.3	8.4	9.1	5.1	9.1	.2	1142

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.1	.0	.0	*	.1	.0	.0	.0	.2	.2
	NO PCP	.1	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	.2
	TOT %	.1	.0	.1	.0	.0	*	.1	.0	.0	.0	.3	.3
2<5	PCP	.1	.0	.0	.0	.1	*	.1	.0	.0	.0	.3	.3
	NO PCP	.1	*	.1	.0	.0	.1	.0	.0	.0	.0	.3	.3
	TOT %	.2	*	.1	.0	.1	.1	.1	.0	.0	.0	.7	.7
5<10	PCP	.1	.1	*	.2	.4	.1	.3	.0	.0	.0	1.4	1.4
	NO PCP	.1	.2	.2	1.0	3.3	1.0	.9	.1	.0	.6	7.4	7.4
	TOT %	.2	.2	.2	1.2	3.8	1.1	1.0	.4	.0	.6	8.8	8.8
10+	PCP	*	.1	.1	.1	.1	.2	.2	.0	.0	.0	.8	.8
	NO PCP	.6	1.2	1.8	13.8	43.1	19.1	3.5	1.9	.0	4.2	89.4	89.4
	TOT %	.6	1.3	1.9	13.9	43.2	19.3	3.8	1.9	.0	4.2	90.2	90.2
TOT OBS													1204
TOT PCT		1.1	1.6	2.4	15.1	47.1	20.6	5.0	2.3	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.1	.0	.0	*	.1	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.0	.0	*	.1	.0	.0	.0	.3	.3
2<5	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	*	.2	.2	.1	.2	.1	.0	.0	.0	.8	.8
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	*	.2	.2	.1	.2	.1	.0	.0	.0	1.0	1.0
5<10	0-3	.0	.0	.0	.1	.3	.2	.1	.1	.0	.5	1.3	1.3
	4-10	.2	.1	.2	.9	3.3	.6	.7	.2	.0	.6	6.2	6.2
	11-21	*	.2	.0	.1	.8	.3	.2	.2	.0	.1	1.7	1.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.2	.2	1.1	4.4	1.1	1.0	.4	.0	.5	9.2	9.2
10+	0-3	.1	.2	.2	1.0	2.8	1.9	.8	.2	.0	3.8	11.0	11.0
	4-10	.4	.8	1.6	11.1	31.5	15.6	2.8	1.2	.0	.0	65.0	65.0
	11-21	.1	.3	*	1.8	8.1	2.3	.5	.3	.0	.0	13.4	13.4
	22+	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.2
	TOT %	.6	1.4	1.8	13.9	42.4	19.8	4.1	1.7	.0	3.8	89.5	89.5
TOT OBS													1330
TOT PCT		1.0	1.6	2.3	15.2	47.0	21.1	5.2	2.1	.0	4.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.6	4.3	8.6	10.6	1.2	.4	.4	.4	27.8	72.2	255
06009	.0	.0	.4	6.3	15.4	9.1	4.2	.4	.4	1.4	37.5	62.5	285
12015	.3	.0	.7	6.4	8.7	8.7	3.3	1.0	1.0	.7	30.8	69.2	299
18021	.4	.0	.0	2.6	10.0	5.9	2.2	.4	1.1	.4	22.9	77.1	271
TOT PCT	3 .3	0 .0	7 .6	55 5.0	119 10.7	95 8.6	31 2.8	6 .5	8 .7	8 .7	332 29.9	778 70.1	1110 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.6	.9	9.4	89.1	340
06009	.0	.0	.0	.6	9.5	89.9	337
12015	.0	.0	.0	2.0	8.5	89.6	355
18021	.0	.0	.6	.3	8.9	90.2	325
TOT PCT	0 .0	0 .0	4 .3	13 1.0	123 9.1	1217 89.7	1357 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	2.0	7.0	21.7	71.3	244
06009	.0	.4	6.9	31.8	61.4	277
12015	.3	1.0	7.9	23.4	68.7	291
18021	.4	.4	3.4	20.1	76.5	264
TOT PCT	3 .3	10 .9	68 6.3	262 24.3	746 69.3	1076 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.1	.0	.0	3	.3
85/89	.0	.0	.0	.0	1.6	3.2	.6	.0	51	5.4
80/84	.0	.0	.0	.0	4.9	29.0	36.4	6.6	726	76.7
75/79	.0	.0	.0	.1	1.0	5.7	6.2	4.3	164	17.3
70/74	.0	.0	.0	.0	.0	.1	.0	.1	2	.2
TOTAL	0	0	0	1	72	360	408	104	946	100.0
PCT	.0	.0	.0	.1	7.6	38.1	43.2	11.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.1	.1	.0	.0	.0
.1	*	.1	.7	3.0	1.0	.2	.0	.0	.2
.4	.7	1.5	9.8	37.3	18.3	4.1	1.6	.0	3.1
.3	.6	.5	4.4	7.3	2.2	1.0	.6	.0	.4
.0	.0	.0	.0	.2	*	.0	.0	.0	.0
.8	1.2	2.1	14.9	48.0	21.6	5.4	2.2	.0	3.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	84	83	80	76	71	68	80.1	561
06009	86	84	83	81	76	71	68	80.2	429
12015	93	91	88	82	78	75	72	82.7	560
18021	88	86	85	81	77	73	70	81.2	426
TOT	93	88	86	81	77	72	68	81.1	1976

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	4.0	33.5	48.8	13.7	82	248
06009	.0	.0	.0	.0	2.1	34.2	46.0	17.7	83	237
12015	.0	.4	.0	.0	16.0	44.0	32.7	7.0	77	257
18021	.0	.0	.0	.0	7.2	39.9	46.6	6.3	80	223
TOT	0	1	0	0	72	366	418	108	80	965

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.3	3	.0	.3
11/13	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.1	.1	.0	.2	4	.0	.4
7/8	.0	.0	.0	.0	.3	.3	.2	8	.0	.7
6	.0	.0	.0	.1	.0	.2	.1	4	.0	.4
5	.0	.0	.0	.1	.4	1.0	.3	19	.0	1.7
4	.0	.0	.0	.4	.8	.8	.1	23	.0	2.0
3	.0	.0	.1	.3	2.1	.7	.0	36	.0	3.2
2	.0	.0	.0	.5	5.3	1.6	.0	84	.0	7.4
1	.0	.0	.2	1.5	6.1	.4	.0	93	.1	8.1
0	.0	.0	.1	3.7	14.9	.3	.0	215	.1	18.9
-1	.0	.0	.1	5.8	13.5	.2	.0	222	.0	19.6
-2	.0	.1	.4	7.8	10.7	.0	.0	215	.0	19.0
-3	.0	.0	.0	4.1	2.1	.0	.0	70	.0	6.2
-4	.0	.0	.3	3.5	4.0	.0	.0	88	.0	7.8
-5	.1	.0	.1	1.5	.7	.0	.0	27	.0	2.4
-6	.0	.0	.3	.5	.0	.0	.0	9	.0	.8
-7/-8	.0	.0	.4	.2	.1	.0	.0	7	.0	.6
-9/-10	.1	.0	.1	.0	.0	.0	.0	2	.0	.2
-11/-13	.0	.3	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	2	4	22	340	691	12	1133	2	1131	
PCT	.2	.4	1.9	30.0	61.0	5.5	1.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3
1-2	.0	.1	.0	.0	.0	.0	.1	.1	.5	.0	.0	.0	.0	.6
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.1	.0	.0	.0	.6	.3	.7	.3	.0	.0	.0	1.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.5	.0	.0	.0	.0	.7	.5	2.7	.0	.0	.0	.0	3.2
1-2	.0	.7	.0	.0	.0	.0	.7	.1	6.6	.4	.0	.0	.0	7.1
3-4	.0	.4	.0	.0	.0	.0	.4	.0	1.6	1.2	.0	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	.0	.0	.0	.0	1.7	.6	11.5	2.0	.0	.0	.0	14.1

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0014 LUANDA NW
5.95 8.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.5	7.2	.3	.0	.0	.0	9.0	.5	3.0	.1	.0	.0	.0	.0	3.6
1-2	.7	21.6	3.9	.0	.0	.0	26.2	.6	9.3	1.1	.0	.0	.0	.0	11.1
3-4	.0	6.9	4.2	.0	.0	.0	11.0	.4	4.2	.7	.1	.0	.0	.0	5.5
5-6	.0	.9	1.6	.0	.0	.0	2.5	.0	.6	.5	.0	.0	.0	.0	1.1
7	.0	.1	.7	.0	.0	.0	.8	.0	*	.0	.0	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	36.8	10.8	.0	.0	.0	49.8	1.5	17.1	2.7	.1	.0	.0	.0	21.5

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.4	.1	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.0	.3
1-2	.4	1.9	.0	.0	.0	.0	2.3	.0	.5	.1	.0	.0	.0	.0	.7
3-4	.0	.8	.1	.0	.0	.0	1.0	.0	.5	.2	.0	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.3	.2	.0	.0	.0	4.2	.1	1.2	.5	.0	.0	.0	1.8	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	14.1	.6	.0	.0	.0	23.5	
1-2	2.0	41.2	5.5	.0	.0	.0	48.6	
3-4	.4	14.6	6.6	.1	.0	.0	21.7	
5-6	.0	2.1	2.7	.0	.0	.0	4.8	
7	.0	.1	.7	.0	.0	.0	.8	
8-9	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.2	72.3	16.4	.1	.0	.0	100.0	714

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.6	23.6	12.8	4.1	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	450	2
6-7	.2	4.4	7.4	4.3	2.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	4
8-9	.0	.9	3.7	2.1	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	4
10-11	.0	2.2	1.8	.8	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
12-13	.0	.0	2.4	.5	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	5.9	3.9	5.1	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	2
TOTAL	104	339	321	121	56	22	5	0	0	0	0	0	0	0	0	0	0	0	0	968	3
PCT	10.7	35.0	33.2	12.5	5.8	2.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1800-1976

MARCH

AREA 0014 LUANDA NW
5.75 8.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW PCPN	OTHER FRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
N	8.3	11.5	.0	.0	.0	.0	.0	19.3	8.3	11.5	.0	.0	.0	.0	.0	60.4
NE	4.2	8.3	.0	.0	.0	.0	.0	12.5	8.3	.0	.0	.0	.0	.0	.0	79.2
E	8.0	13.0	.0	.0	.0	.0	.0	21.0	.0	4.5	.0	.0	.0	.0	.0	73.9
SE	1.7	.0	1.4	.0	.0	.0	.0	3.2	4.4	3.8	1.3	.0	.0	.0	.0	87.4
S	1.8	.9	.5	.0	.0	.0	.0	3.2	1.7	3.3	.2	.0	.0	.0	.0	91.6
SW	3.1	1.6	.7	.0	.0	.0	.0	5.0	1.6	3.0	.4	.0	.0	.0	.0	89.5
W	5.8	1.6	.0	.0	.0	.0	.0	7.5	8.6	4.2	.0	.0	.0	.0	.9	78.8
NW	7.1	5.1	.0	.0	.0	.0	.0	12.2	11.7	2.0	.0	.0	.0	.0	.0	74.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1	1.7	.0	.0	.0	.0	.0	6.8	.0	1.7	.0	.0	.0	.0	.0	93.2
TOT PCT	2.9	1.7	.0	.0	.0	.0	.0	5.2	2.9	3.4	.3	.0	.0	.1	.0	88.2
TOT OBS:	1256															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA	
00003	2.1	1.3	.0	.0	.0	.0	.0	4.0	3.0	8.2	.0	.0	.0	.0	.0	84.8	
06009	3.1	2.2	1.5	.0	.0	.0	.0	6.8	4.0	4.3	.6	.0	.0	.0	.3	84.2	
12015	3.7	1.5	.3	.0	.0	.0	.0	5.5	2.5	.3	.0	.0	.0	.0	.0	92.0	
18021	2.8	.9	.3	.0	.0	.0	.0	4.1	1.6	1.9	.6	.0	.0	.0	.0	91.9	
TOT PCT	2.9	1.6	.5	.0	.0	.0	.0	5.1	2.8	3.7	.3	.0	.0	.1	.0	88.2	
TOT OBS:	1297																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.0	.2	*	.0	.0		1.6	6.9		1.9	1.0	1.6	.0	1.9	1.3	1.8	.0
NE	.2	.7	.1	.0	.0	.0		1.1	6.9		.4	2.3	1.2	1.2	1.6	.0	1.0	1.2
E	.6	1.0	.2	*	.0	.0		1.9	5.9		.8	1.8	4.4	1.7	2.0	1.6	.8	1.2
SE	1.0	7.4	2.9	*	.0	.0		11.3	8.4		9.6	12.8	12.0	15.1	12.2	10.6	10.9	10.4
S	3.1	30.4	8.9	*	.0	.0		42.4	8.1		42.0	36.7	43.7	50.0	45.8	37.4	41.5	40.8
SW	2.0	17.1	3.9	.0	.0	.0		24.9	7.7		27.4	26.8	22.9	27.0	20.3	28.1	26.0	27.4
W	1.0	7.2	1.0	.0	.0	.0		9.3	6.8		10.1	10.4	8.0	4.9	7.4	13.0	10.3	9.2
NW	.5	2.1	.3	*	.0	.0		2.9	6.4		7.2	3.3	1.8	.0	3.1	5.9	2.9	5.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0		5.6	5.1	4.3	.0	5.7	2.1	4.8	4.8
TOT OBS	312	1613	411	3	.0	.0		2399	7.4		502	198	394	86	473	188	414	84
TOT PCT	13.3	69.0	17.6	.1	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18 21
		7-16	17-27	28-40	00 03					06 09	12 15				
N	1.0	.5	.1	.0	.0		1.6	6.9	1.7	1.3	1.7	1.5			
NE	.5	.5	.0	.0	.0		1.1	6.9	1.9	1.2	1.2	1.0			
E	1.4	.4	.1	.0	.0		1.9	5.9	1.1	4.0	1.9	.9			
SE	4.3	6.4	.6	*	.0		11.3	8.4	10.5	12.6	11.7	10.8			
S	16.6	24.6	1.1	*	.0		42.4	8.1	40.5	44.8	43.4	41.4			
SW	10.4	14.3	.3	.0	.0		24.9	7.7	27.2	23.6	22.5	26.3			
W	5.3	3.8	.1	.0	.0		9.3	6.8	10.1	7.4	9.0	10.1			
NW	1.9	.9	.1	.0	.0		2.9	6.4	2.5	1.5	3.9	3.3			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	4.7						4.7	.0	5.4	3.5	4.7	4.8			
TOT OBS	1081	1201	56	1	0	2399	7.4		700	480	661	498			
TOT PCT	46.2	51.3	2.4	*	.0		100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

MARCH

AREA 0014 LUANDA NM
5.75 8.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.4	9.4	68.9	16.3	.0	.0	.0	7.2	100.0	700
0600	3.5	7.5	72.9	15.4	.2	.0	.0	7.5	100.0	480
1200	4.7	8.6	66.0	20.4	.3	.0	.0	7.6	100.0	661
1800	4.8	8.0	69.3	17.3	.0	.0	.0	7.4	100.0	498
TOT	110	202	1613	411	3	0	0	7.4		2339
PCT	4.7	8.6	69.0	17.6	.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.4	.8	.5		5.6
NE	.1	.1	.2	.6		6.6
E	.1	.2	1.0	.4		5.9
SE	2.3	3.2	5.3	2.1		4.8
S	6.4	13.2	19.4	7.1		4.9
SW	3.5	5.2	9.6	4.5		5.1
W	.8	1.7	2.6	2.5		5.7
NW	.2	*	1.0	.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.2	1.2	.6		4.4
TOT OBS	164	285	464	218	1131	5.1
TOT PCT	14.5	25.2	41.0	19.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	1.1	
.0	.0	.0	.1	.4	*	.0	.1	.0	.0	.3	
.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	1.1	
.0	.0	.3	.9	1.5	1.1	.4	.0	*	*	8.6	
.2	.0	.1	2.1	5.2	4.3	.8	.3	.1	.2	32.9	
.1	.0	.2	1.1	2.8	2.3	.3	.2	*	.1	15.6	
.0	.2	.1	.6	1.2	1.1	.3	.1	.1	.0	4.0	
.0	.0	.0	.1	.4	.2	.0	.0	.0	.4	1.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.4	.3	.2	.1	.0	.1	2.8	
3	2	7	66	136	111	23	8	3	8	764	1131
.3	.2	.6	5.8	12.0	9.8	2.0	.7	.3	.7	67.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>3500	3.2	3.8	3.9	3.9	3.9	3.9	3.9	3.9
>2000	11.6	13.6	13.9	13.9	13.9	13.9	13.9	13.9
>1000	21.8	25.4	25.9	25.9	25.9	25.9	25.9	25.9
>600	26.0	30.5	31.4	31.6	31.7	31.7	31.7	31.7
>300	26.4	31.0	32.0	32.1	32.2	32.2	32.2	32.2
>150	26.4	31.2	32.1	32.3	32.4	32.4	32.4	32.4
>0	26.6	31.4	32.4	32.6	32.6	32.6	32.6	32.6
TOTAL	308	344	375	377	378	378	378	378

TOTAL NUMBER OF OBS: 1158

PCT FREQ NH <5/8: 67.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
4.4	11.5	17.5	19.1	14.8	7.2	9.3	6.2	9.7	.2	1202

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2	.2
1<2	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	.2
2<5	PCP	.1	.0	.0	.0	.2	*	.0	.0	.0	.2	.5	.5
	NO PCP	.2	.0	.0	.3	.2	.1	.0	.0	.0	.0	.7	.7
	TOT %	.2	.0	.0	.3	.4	.1	.0	.0	.0	.2	1.2	1.2
5<10	PCP	.1	*	.1	.1	.7	.4	.1	.1	.0	.0	1.6	1.6
	NO PCP	.1	.4	.2	1.3	2.9	.8	1.2	.2	.0	.6	7.7	7.7
	TOT %	.2	.4	.3	1.5	3.6	1.2	1.3	.3	.0	.6	9.3	9.3
10+	PCP	.2	.1	.2	.3	.6	.6	.4	.2	.0	.2	2.6	2.6
	NO PCP	1.3	.4	1.2	10.6	40.6	20.4	6.7	1.5	.0	3.7	86.4	86.4
	TOT %	1.5	.5	1.3	10.8	41.1	21.0	7.2	1.7	.0	3.9	89.1	89.1
TOT OBS		1254											
TOT PCT		1.9	1.0	1.8	12.6	45.1	22.5	8.5	2.0	.0	4.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.1
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	.2
	4-10	.2	.0	.0	.1	.3	.1	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.3	.3	.1	.0	.0	.0	.1	1.1	1.1
5<10	0-3	.1	.1	.1	.2	.1	.2	.0	.1	.0	.8	1.7	1.7
	4-10	*	.2	.1	.9	2.8	.8	.9	.2	.0	.5	5.8	5.8
	11-21	.1	.1	.1	.3	1.0	.3	.3	*	.0	.2	2.2	2.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.4	.3	1.4	3.9	1.3	1.2	.3	.0	.8	9.7	9.7
10+	0-3	.3	.1	.6	.7	2.5	2.0	.8	.2	.0	4.2	11.3	11.3
	4-10	.9	.4	.8	6.8	31.4	16.7	5.2	1.2	.0	.6	63.4	63.4
	11-21	.2	.1	.1	2.8	7.8	2.1	.8	.2	.0	.1	14.1	14.1
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	1.4	.5	1.5	10.3	41.8	20.9	6.8	1.6	.0	4.2	88.9	88.9
TOT OBS		1391											
TOT PCT		1.8	.9	1.9	12.0	46.0	22.5	7.9	1.9	.0	5.1	100.0	

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.7	.0	.7	3.7	10.6	11.0	1.8	.7	.4	.4	30.0	70.0	273
06009	.0	.0	1.0	9.2	14.8	8.6	2.0	.7	.0	.0	36.2	63.8	304
12015	.0	.0	.3	4.2	11.7	9.4	2.6	1.3	.6	1.3	31.4	68.6	309
18021	.3	.7	.3	5.3	9.6	10.3	2.0	.0	.0	1.3	29.8	70.2	302
TOT PCT	3 .3	2 .2	7 .6	67 5.6	139 11.7	116 9.8	25 2.1	8 .7	3 .3	9 .8	379 31.9	809 68.1	1188 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.8	10.2	89.0	372
06009	.0	.0	.3	1.4	13.1	85.2	351
12015	.0	.6	.3	.6	6.7	91.9	360
18021	.0	.3	.0	1.4	8.0	90.3	349
TOT PCT	0 .0	3 .2	2 .1	15 1.0	136 9.5	1432 89.1	1432 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.8	1.5	6.1	25.1	68.8	263
06009	.0	.7	10.4	26.6	63.0	297
12015	.0	.7	4.9	26.9	68.2	305
18021	.3	1.4	8.2	22.9	68.9	293
TOT PCT	3 .3	12 1.0	86 7.4	294 25.4	778 67.2	1158 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.1	.0	.1	4	.4
85/89	.0	.0	.0	.2	1.3	5.8	1.3	.1	84	8.4
80/84	.0	.0	.0	.1	3.9	34.1	35.2	5.9	794	79.2
75/79	.0	.0	.0	.1	.1	3.4	4.4	3.8	118	11.8
70/74	.0	.0	.0	.0	.0	.0	.1	.2	3	.3
TOTAL PCT	0 .0	0 .0	0 .0	4 .4	55 5.5	432 43.1	411 41.0	101 10.1	1003	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
85/89	.4	*	.1	1.2	3.3	1.5	.6	.3	.0	.8
80/84	.4	.6	1.4	10.0	35.4	20.8	6.8	1.7	.0	2.1
75/79	1.1	.3	.2	1.8	4.4	1.6	1.4	.4	.0	.6
70/74	*	*	.1	*	.1	.0	.0	.0	.0	.0
TOTAL PCT	2.0	1.0	1.7	13.1	43.4	24.1	8.7	2.4	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	84	83	81	78	76	73	80.9	699
06009	87	86	84	81	77	75	71	81.1	475
12015	93	90	87	83	79	75	70	83.0	660
18021	89	86	84	82	78	76	75	81.8	503
TOT	93	88	86	82	78	75	70	81.7	2337

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	.8	38.8	51.0	8.7	81	263
06009	.0	.0	3.0	34.7	46.8	15.5	82	265
12015	.0	.4	12.3	51.0	29.1	7.3	78	261
18021	.0	.4	6.5	47.4	38.5	7.3	79	247
TOT	0	4	58	444	429	101	80	1036

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.3	.0	.0	.0	4	.0	.3
7/8	.0	.0	.2	.2	.4	.2	.1	12	.0	1.0
6	.0	.0	.2	.3	.1	.1	.0	7	.0	.6
5	.0	.0	.1	.8	.3	.3	.0	17	.0	1.4
4	.0	.0	.1	.8	1.0	.1	.0	23	.1	1.9
3	.0	.0	.0	1.2	.8	.0	.0	24	.0	2.0
2	.0	.0	.3	3.1	2.0	.0	.0	64	.1	5.3
1	.0	.0	.6	5.1	1.4	.0	.0	85	.1	7.1
0	.0	.1	1.5	13.5	1.5	.0	.0	197	.1	16.5
-1	.0	.0	2.4	13.7	.7	.0	.0	200	.0	16.9
-2	.0	.2	3.5	15.0	.3	.0	.0	224	.0	18.9
-3	.0	.0	2.5	5.1	.2	.0	.0	93	.0	7.8
-4	.0	.3	3.8	5.0	.1	.0	.0	109	.0	9.2
-5	.0	.1	3.4	3.1	.0	.0	.0	78	.0	6.6
-6	.0	.3	.8	.8	.0	.0	.0	23	.0	1.9
-7/-8	.0	.4	.6	.6	.0	.0	.0	19	.0	1.6
-9/-10	.1	.0	.2	.1	.0	.0	.0	4	.0	.3
-11/-13	.0	.1	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	1	18	239	814	106	7	1	1186	.3	1182
PCT	.1	1.5	20.2	68.6	8.9	.6	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.3
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.3
3-4	.0	.2	.3	.0	.0	.0	.6	.0	.1	.*	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.0	.3	.0	.0	.0	1.4	.1	.4	.1	.0	.0	.0	.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	1.0	1.0	.*	.0	.0	.0	2.0
1-2	.1	.7	.1	.0	.0	.0	.9	.0	5.2	1.9	.0	.0	.0	7.0
3-4	.1	.1	.0	.0	.0	.0	.2	.0	1.3	1.6	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.1	.0	.0	.0	1.5	1.0	7.8	4.3	.0	.0	.0	13.1

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0014 LUANDA NW
5.75 8.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	6.6	.5	.0	.0	.0	8.1	.7	2.5	.1	.0	.0	.0	3.3
1-2	.6	21.3	3.3	.0	.0	.0	25.1	.9	12.4	.8	.0	.0	.0	14.0
3-4	.2	6.4	3.8	.0	.0	.0	10.4	.0	2.6	1.5	.0	.0	.0	4.2
5-6	.1	.7	2.1	.0	.0	.0	2.9	.1	.2	.2	.0	.0	.0	.6
7	.0	.2	.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	35.2	9.8	.0	.0	.0	46.8	1.7	17.8	2.6	.0	.0	.0	22.1

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.2	.0	.0	.0	.0	1.4	.1	.5	.0	.0	.0	.0	.7	95.1
1-2	.3	3.8	.7	.0	.0	.0	4.8	.0	.6	.1	.0	.0	.0	.7	
3-4	.0	.7	.2	.0	.0	.0	1.0	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.2	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	6.2	1.1	.0	.0	.0	7.8	.1	1.3	.3	.0	.0	.0	1.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.7	12.6	.6	.0	.0	.0	21.8	852
1-2	2.1	44.0	6.9	.0	.0	.0	53.1	
3-4	.5	11.5	7.4	.0	.0	.0	19.4	
5-6	.2	1.5	3.1	.0	.0	.0	4.8	
7	.0	.2	.4	.0	.0	.0	.6	
8-9	.0	.2	.1	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	70.1	18.4	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.1	18.1	14.0	4.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	441	3
6-7	.2	3.5	6.4	6.0	1.8	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	4
8-9	.0	.7	5.0	4.5	1.5	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	5
10-11	.0	2.3	.9	.6	.5	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
12-13	.0	.0	1.0	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
>13	.0	.0	.0	.7	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
INNET	5.4	6.5	5.1	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	2
TOTAL	104	334	349	187	60	27	5	5	1	0	0	0	0	0	0	0	0	0	0	1072	3
PCT	9.7	31.2	32.6	17.4	5.6	2.5	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0014 LUANDA NW
5.75 8.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	13.7	.0	.0	.0	.0	.0	.0	13.7	.0	.0	.0	.0	.0	.0	86.3
NE	17.8	4.4	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	77.8
E	6.5	2.4	.0	.0	.0	.0	.0	8.9	6.5	15.3	.0	.0	.0	.0	69.4
SE	1.5	1.2	.4	.0	.0	.0	.0	3.1	1.5	1.8	.0	.0	.4	.0	93.2
S	2.1	1.4	.4	.0	.0	.0	.0	3.7	1.8	2.5	.5	.0	.0	.0	91.9
SW	3.0	1.7	.0	.0	.0	.0	.0	4.7	2.6	6.2	.2	.0	.0	.0	87.0
W	4.8	.0	1.8	.0	.0	.0	.0	4.8	1.8	1.3	.0	.0	.0	.0	92.1
NW	1.5	6.0	6.0	.0	.0	.0	.0	13.4	.0	6.0	.0	.0	.0	.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	7.5	.0	.0	.0	.0	90.0
TOT PCT	2.7	1.5	.5	.0	.0	.0	.0	4.5	1.8	3.4	.3	.0	.1	.0	90.2
TOT OBS:	1102														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	1.4	1.8	.4	.0	.0	.0	.0	3.2	1.1	8.3	.4	.0	.0	.0	87.0
06009	4.8	1.0	.7	.0	.0	.0	.0	6.2	1.4	3.1	.3	.0	.0	.0	89.3
12015	2.6	2.3	.7	.0	.0	.0	.0	5.6	.7	.3	.0	.0	.3	.0	90.8
18021	2.0	.8	.0	.0	.0	.0	.0	2.7	2.0	2.3	.0	.0	.0	.0	93.0
TOT PCT	2.7	1.5	.4	.0	.0	.0	.0	4.5	1.9	3.5	.3	.0	.1	.0	90.0
TOT OBS:	1130														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21	
N	.5	.6	.2	.0	.0	.0		1.2	6.1	1.3	1.9	1.9	.0	.7	.6	1.2	.0		
NE	.1	1.5	.3	.1	.0	.0		2.0	8.3	.9	.8	3.2	1.5	3.1	1.9	.9	2.9		
E	.5	1.7	.3	.0	.0	.0		2.5	6.2	2.0	2.7	4.8	1.5	2.4	1.1	1.4	1.8		
SE	1.2	10.9	5.1	.2	.0	.0		17.4	9.2	15.6	13.8	20.6	15.3	21.1	11.9	15.9	17.3		
S	2.4	30.0	10.0	.1	.0	.0		42.5	8.4	41.7	37.7	41.9	49.6	45.1	41.2	42.9	39.0		
SW	1.7	16.5	3.5	.0	.0	.0		21.6	7.8	23.9	28.6	15.7	21.3	18.1	29.4	22.0	26.5		
W	1.0	5.0	.6	.0	.0	.0		6.6	6.5	7.0	6.9	4.1	7.8	5.7	7.6	8.5	8.8		
NW	.5	1.7	.2	.0	.0	.0		2.3	5.9	2.9	3.1	1.9	3.0	1.5	2.3	2.9	2.2		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.0							4.0	.0	4.6	4.4	5.8	.0	2.3	3.9	4.3	1.5		
TOT OBS	233	1357	402	6	0	0	1998		7.8	409	159	362	67	430	154	349	68		
TOT PCT	11.7	67.9	20.1	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.8	.4	.0	.0	.0		1.2	6.1	1.5	1.6	.7	1.0
NE	.9	1.0	.2	.0	.0		2.0	8.3	.8	2.9	2.8	1.3
E	1.6	.9	.0	.0	.0		2.5	6.2	2.2	4.3	2.1	1.5
SE	5.1	11.2	1.0	.1	.0		17.4	9.2	15.1	19.8	18.7	16.1
S	14.9	26.5	1.1	.0	.0		42.5	8.4	40.6	43.1	44.0	42.3
SW	8.7	12.6	.3	.0	.0		21.6	7.8	25.2	16.6	21.1	22.7
W	4.0	2.6	.1	.0	.0		6.6	6.5	7.0	4.7	6.2	8.5
NW	1.6	.8	.0	.0	.0		2.3	5.9	2.9	2.0	1.7	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	4.6	4.9	2.7	3.8
TOT OBS	828	1116	52	2	0	1998		7.8	568	429	584	417
TOT PCT	41.4	55.9	2.6	.1	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1869-1976

TABLE 4

AREA 0014 LUANDA NW
5.75 8.1E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00603	4.6	8.6	66.0	20.4	.4	.0	.0	7.7	100.0	568
06609	4.9	7.2	69.7	18.2	.0	.0	.0	7.7	100.0	429
12615	2.7	7.9	68.1	22.6	.5	.0	.0	8.0	100.0	584
18621	3.8	6.7	71.7	18.0	.2	.0	.0	7.8	100.0	417
TOT	79	154	1357	402	.6	.0	.0	7.8		1998
PCT	4.0	7.7	67.9	20.1	.3	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.5	.5		6.9
NE	.0	.2	.9	.9		6.6
E	.6	.7	.9	.9		5.3
SE	3.6	6.4	7.8	3.1		4.8
S	5.9	11.7	23.8	9.3		5.2
SW	2.1	2.9	6.6	2.3		5.1
W	.4	.6	2.7	.7		5.7
NW	.1	.3	.6	.5		6.1
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	1.7	.7		5.2
TOT OBS	134	230	451	178	993	5.2
TOT PCT	13.5	23.2	45.4	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.1	.0	.3	.0	.1	.1	.0	.0	.6	
.0	.0	.1	.2	.7	.1	.3	.0	.0	.1	.6	
.0	.0	.0	.1	.6	.3	.0	.0	.0	.0	2.0	
.0	.1	.2	1.8	3.0	1.5	.1	*	.1	.2	13.9	
.2	.0	.4	3.5	8.3	4.6	1.8	.4	.2	.6	29.9	
.0	.0	.1	.5	2.5	1.4	.2	*	.1	.2	8.9	
.1	.0	.0	.2	.9	1.1	.2	.0	.0	.1	1.9	
.0	.0	.0	.2	.2	*	.2	.1	.0	.0	.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.5	.5	.1	.1	.0	.1	2.0	
.4	1	8	65	168	95	29	7	4	13	599	993
.4	.1	.8	6.5	16.9	9.6	2.9	.7	.4	1.3	60.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >3500	4.2	5.2	5.3	5.3	5.4	5.4	5.4	5.4
* OR >2000	12.7	14.8	14.9	14.9	15.0	15.0	15.0	15.0
* OR >1000	26.3	31.0	31.3	31.4	31.5	31.5	31.7	31.7
* OR >600	31.4	37.3	37.8	37.9	38.0	38.0	38.2	38.2
* OR >300	32.1	38.1	38.6	38.7	38.8	38.8	39.0	39.0
* OR >150	32.2	38.2	38.7	38.8	38.9	38.9	39.1	39.1
* OR >0	32.3	38.3	39.1	39.2	39.3	39.3	39.5	39.5
TOTAL	325	385	393	394	395	395	397	397

TOTAL NUMBER OF OBS: 1005

PCT FREQ NH <5/8: 60.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
3.2	10.4	17.3	17.5	12.3	10.4	10.1	8.4	10.3	.3	1053

APRIL

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1869-1976AREA 0014 LUANDA NW
5.75 8.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	*	.0	.1	.0	.0	.2	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.1	*	.0	.0	.0	.0	.2	
2<5	PCP	.0	.2	.0	.0	.2	*	.1	.0	.0	.0	.5	
	NO PCP	.1	.0	.1	.0	.2	.2	.1	.0	.0	.0	.6	
	TOT %	.1	.2	.1	.0	.4	.2	.2	.0	.0	.0	1.2	
5<10	PCP	.2	.1	.2	.3	.5	.6	.1	*	.0	.0	1.9	
	NO PCP	.3	.2	.3	1.6	3.7	1.0	.9	.2	.0	.4	8.6	
	TOT %	.5	.3	.5	1.9	4.2	1.6	1.0	.2	.0	.4	10.5	
10+	PCP	.0	.0	.1	.3	1.0	.1	.1	.1	.0	.0	1.6	
	NO PCP	.6	1.4	2.1	18.1	43.1	12.7	3.9	1.1	.0	3.2	86.0	
	TOT %	.6	1.4	2.1	18.4	44.0	12.8	4.0	1.2	.0	3.2	87.6	
TOT OBS													1101
TOT PCT		1.2	2.0	2.7	20.3	48.8	14.6	5.2	1.5	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	*	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	*	.0	.1	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.1	*	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.3	.1	.0	.0	.0	.0	.5	
	11-21	.1	.1	.0	.0	.1	.1	.2	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.0	.4	.2	.2	.0	.0	.0	1.1	
5<10	0-3	.2	.0	.0	.2	.2	.2	.2	.0	.0	.7	1.5	
	4-10	.2	.3	.5	1.7	2.7	1.4	.7	.2	.0	.0	7.6	
	11-21	.1	.0	.0	.3	1.2	.3	.1	*	.0	.0	2.0	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.5	.3	.5	2.2	4.1	1.9	.9	.2	.0	.7	11.2	
10+	0-3	.3	.1	.5	.8	1.2	.7	.6	.2	.0	3.0	7.3	
	4-10	.2	1.2	1.3	11.2	31.1	11.8	3.2	.9	.0	.0	61.0	
	11-21	.1	*	.3	5.8	11.1	1.2	.0	.0	.0	.0	18.5	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.5	1.3	2.1	18.1	43.4	13.7	3.8	1.1	.0	3.0	87.1	
TOT OBS													1192
TOT PCT		1.1	1.9	2.7	20.2	48.1	15.9	4.9	1.4	.0	3.8	100.0	

APRIL

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1869-1976AREA 0014 LUANDA NW
5.75 8.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.4	.4	5.4	14.2	5.4	2.9	.4	.4	.8	30.4	69.6	240
06009	.4	.0	.4	6.5	18.5	12.0	2.2	.4	.0	1.1	41.5	58.5	275
12015	.7	.0	1.1	6.4	17.4	7.1	3.5	1.8	.4	1.4	39.7	60.3	282
18021	.4	.0	1.2	6.6	14.5	13.3	2.5	.4	.8	2.1	41.9	58.1	241
TOT	4	1	8	65	169	98	29	8	4	14	400	638	1038
PCT	.4	.1	.8	6.3	16.3	9.4	2.8	.8	.4	1.3	38.5	61.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.0	.3	1.3	11.3	86.7	300
06009	.0	.0	.0	4.0	12.5	86.5	312
12015	.3	.3	.3	.9	9.9	88.3	332
18021	.4	.4	.0	1.4	10.8	87.0	277
TOT	3	2	2	14	136	1064	1221
PCT	.2	.2	.2	1.1	11.1	87.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.9	7.4	24.7	68.0	231
06009	.4	.7	7.9	34.8	57.3	267
12015	.7	2.5	9.8	30.8	59.4	276
18021	.4	2.6	10.0	33.3	56.7	231
TOT	4	17	88	312	605	1005
PCT	.4	1.7	8.8	31.0	60.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	.0	.2	.0	.0	.0	3	.3
85/89	.0	.0	.0	.1	1.2	5.2	1.0	.3	70	7.8
80/84	.0	.0	.0	.0	3.3	26.1	39.5	7.2	678	76.0
75/79	.0	.0	.0	.0	.7	5.2	6.1	3.5	137	15.4
70/74	.0	.0	.0	.0	.0	.1	.2	.1	4	.4
TOTAL	0	0	1	1	48	326	417	99	892	100.0
PCT	.0	.0	.1	.1	5.4	36.5	46.7	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0
85/89	.0	.2	.3	2.4	3.2	.7	.4	.1	.0	.4
80/84	.5	1.0	1.9	15.7	39.2	10.8	3.6	1.0	.0	2.4
75/79	.3	1.0	.5	3.5	6.5	2.6	.3	.4	.0	.2
70/74	.0	.0	.0	*	.4	.0	.0	.0	.0	.0
TOTAL	1.0	2.3	2.7	21.6	49.4	14.1	4.3	1.5	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	84	83	81	77	75	68	80.4	568
06009	90	86	84	81	77	75	65	80.7	417
12015	93	91	88	83	78	76	70	82.9	581
18021	92	88	84	81	77	76	71	81.2	412
TOT	93	89	86	81	77	76	65	81.4	1978

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.9	26.3	57.0	12.7	83	228
06009	.0	.0	1.7	30.5	50.6	17.2	83	233
12015	.0	.8	12.6	53.4	27.1	6.1	77	247
18021	.0	.0	2.4	35.0	54.9	7.8	82	206
TOT	0	2	49	335	428	100	81	914

APRIL

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1969-1976

TABLE 17

AREA 0014 LUANDA NW
5.75 8.1EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
7/8	.0	.0	.0	.1	.3	.1	.1	.1	7	.1	.6
6	.0	.0	.0	.0	.2	.1	.0	.0	3	.0	.3
5	.0	.0	.0	.0	.1	.6	.2	.0	9	.0	.9
4	.0	.0	.0	.0	.8	1.7	.2	.0	28	.0	2.7
3	.0	.0	.0	.2	1.1	1.0	.2	.0	27	.0	2.6
2	.0	.0	.0	.6	2.8	2.3	.0	.0	59	.0	5.6
1	.0	.1	.0	.7	4.5	1.0	.0	.0	66	.0	6.3
0	.0	.0	.3	1.0	11.1	.8	.1	.0	138	.1	13.1
-1	.1	.0	.0	3.8	13.6	.2	.0	.0	186	.0	17.7
-2	.0	.0	.0	6.7	15.3	.0	.0	.0	230	.1	21.8
-3	.1	.0	.2	5.4	4.5	.0	.0	.0	107	.0	10.2
-4	.0	.1	.2	3.1	4.7	.2	.0	.0	87	.0	8.3
-5	.0	.0	.2	2.4	1.4	.1	.0	.0	43	.0	4.1
-6	.0	.0	.3	1.1	.6	.0	.0	.0	21	.0	2.0
-7/-8	.0	.0	.4	2.2	.2	.0	.0	.0	29	.0	2.8
-9/-10	.0	.0	.2	.3	.1	.0	.0	.0	6	.0	.6
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		19		641		10		1049	.3	1046
PCT	.2	.2	1.8	27.6	61.1	8.1	1.0	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.3	<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.0	.3	.0	.0	.0	.3	1-2	.1	.8	.2	.0	.0	.0	1.0
3-4	.0	.1	.0	.0	.0	.0	.1	3-4	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1	5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.5	.0	.0	.0	.8	TOT PCT	.1	2.2	.3	.0	.0	.0	2.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	<1	.2	1.7	.0	.0	.0	.0	1.9
1-2	.3	1.3	.2	.0	.0	.0	1.9	1-2	.0	7.5	2.6	.0	.0	.0	10.1
3-4	.1	.4	.4	.0	.0	.0	.9	3-4	.0	4.0	3.4	.0	.0	.0	7.4
5-6	.0	.1	.0	.0	.0	.0	.1	5-6	.0	1.1	1.0	.1	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.4	.7	.0	.0	.0	3.5	TOT PCT	.2	13.4	7.1	.2	.0	.0	20.9

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0014 LUANDA NW
5.75 8.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	2.7	.1	.0	.0	.0	3.1		.3	1.4	.0	.0	.0	.0	1.7	
1-2	.6	22.4	4.9	.0	.0	.0	27.9		.3	7.2	.9	.0	.0	.0	8.1	
3-4	.0	8.0	6.6	.0	.0	.0	14.6		.3	2.1	.2	.0	.0	.0	2.6	
5-6	.0	2.2	1.9	.0	.0	.0	4.0		.0	.6	.0	.0	.0	.0	.6	
7	.0	.7	.3	.1	.0	.0	1.0		.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	36.0	13.9	.1	.0	.0	50.8		.6	11.3	1.4	.0	.0	.0	13.3	

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	1.2	.0	.0	.0	.0	1.5		.0	.1	.0	.0	.0	.0	.0	.2	
1-2	.1	1.8	.1	.0	.0	.0	2.0		.0	.7	.0	.0	.0	.0	.0	.7	
3-4	.0	.3	.0	.0	.0	.0	.3		.0	.2	.0	.0	.0	.0	.0	.2	
5-6	.0	.5	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.1	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.9	.1	.0	.0	.0	4.4		.0	1.0	.0	.0	.0	.0	1.0	97.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	8.7	.1	.0	.0	.0	12.8	
1-2	1.6	41.1	9.2	.0	.0	.0	51.9	
3-4	.4	15.4	10.5	.0	.0	.0	26.4	
5-6	.1	3.6	2.9	.1	.0	.0	6.8	
7	.0	1.1	.7	.1	.0	.0	1.9	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	69.9	23.7	.3	.0	.0	100.0	751

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.1	19.1	14.9	3.8	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	3
6-7	.0	2.5	8.5	6.4	3.8	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	4
8-9	.0	.9	4.3	4.3	1.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	4
10-11	.0	1.3	1.5	.8	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	4
12-13	.0	.0	2.6	1.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
>13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	3.9	5.1	4.2	2.2	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	2
TOTAL	97	274	342	178	75	16	3	2	2	0	0	0	0	0	0	0	0	0	0	0	949	3
PCT	6.0	28.9	36.0	18.8	7.9	1.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1868-1976

MAY

AREA 0014 LUANDA HW
5.95 8.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	87.5
NE	17.4	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0	.0	82.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.1	.0	.7	.0	.0	.0	.0	.8	.6	.3	.4	.0	.3	.0	97.5
S	.1	.0	.0	.0	.0	.0	.0	.1	2.1	.9	.6	.0	.2	.0	96.1
SW	.8	.0	.8	.0	.0	.0	.0	.8	1.5	1.9	.8	.0	.0	.0	95.1
W	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	97.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	96.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	3.8	.0	.0	.0	92.3
TOT PCT	.3	.0	.3	.0	.0	.0	.0	.4	1.7	.8	.6	.0	.2	.0	96.2
TOT OBS:	1117														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	1.0	.0	.7	.0	.0	.0	.0	1.4	1.4	3.1	1.0	.0	.0	.0	93.1
06009	.4	.0	.4	.0	.0	.0	.0	.7	2.1	.0	1.1	.0	.4	.0	95.7
12015	.3	.0	.0	.0	.0	.0	.0	.3	1.6	.0	.3	.0	.3	.0	97.5
18021	.0	.4	.0	.0	.0	.0	.0	.4	1.9	.8	.4	.0	.0	.0	96.5
TOT PCT	.4	.1	.3	.0	.0	.0	.0	.7	1.7	1.0	.7	.0	.2	.0	95.7
TOT OBS:	1145														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.6	*	.0	.0	.0		.9	4.8		.7	2.2	1.0	1.4	.5	1.5	.4	.8
NE	.3	.4	.2	.0	.0	.0		.9	5.7		1.0	2.2	1.9	.0	.3	.5	.3	.8
E	.4	1.1	.1	.0	.0	.0		1.7	6.0		.7	3.3	2.1	.0	2.9	.3	1.0	2.3
SE	1.1	13.4	5.8	.2	.0	.0		20.6	9.1		20.7	16.7	22.8	22.9	22.9	14.6	20.0	19.3
S	2.9	32.6	13.2	.5	.0	.0		49.2	9.1		48.5	45.9	47.3	51.8	51.9	47.3	49.4	56.1
SW	1.5	12.6	2.2	*	.0	.0		16.3	7.3		18.2	18.0	13.5	16.1	12.6	20.8	18.4	18.6
W	1.5	3.7	.1	.0	.0	.0		5.3	5.0		5.5	6.6	4.6	3.6	4.3	7.9	6.1	.8
NW	.6	1.2	.0	.0	.0	.0		1.8	4.6		1.9	1.9	1.3	1.4	1.8	2.5	2.0	1.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0		2.9	3.3	5.6	2.9	2.8	4.6	2.3	.0
TOT OBS	268	1473	487	16	0	0	2244		8.1		450	183	390	70	495	197	393	66
TOT PCT	11.9	65.6	21.7	.7	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.7	.1	*	.0	.0	.9	4.8		1.1	1.0	.8	.4	
NE	.7	.2	*	.0	.0	.9	5.7		1.3	1.6	.3	.3	
E	1.0	.6	*	.0	.0	1.7	6.0		1.4	1.7	2.1	1.2	
SE	6.0	13.7	.8	*	.0	20.6	9.1		19.5	22.8	20.5	19.9	
S	15.1	31.1	3.0	*	.0	49.2	9.1		47.7	48.0	50.6	50.4	
SW	8.3	7.7	.4	.0	.0	16.3	7.3		18.1	13.9	15.0	18.5	
W	4.1	1.1	.0	.0	.0	5.3	5.0		5.8	4.4	5.3	5.3	
NW	1.5	.3	.0	.0	.0	1.8	4.6		1.9	1.4	2.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	3.3					3.3	.0		3.0	5.2	3.3	2.0	
TOT OBS	914	1232	97	1	0	2244		8.1	633	460	692	459	
TOT PCT	40.7	54.9	4.3	*	.0				100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1868-1976

MAY

AREA 0014 LUANDA NM
5.95 8.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000Z	3.0	10.4	67.0	19.0	.6	.0	.0	.0	7.7	100.0	633
0600Z	5.2	8.5	63.9	21.3	1.1	.0	.0	.0	6.1	100.0	460
1200Z	3.3	7.8	64.0	24.6	.3	.0	.0	.0	6.3	100.0	692
1800Z	2.0	7.4	68.0	21.6	1.1	.0	.0	.0	6.2	100.0	459
TOT	75	193	1473	487	16	0	0	0	8.1		2244
PCT	3.3	8.6	65.6	21.7	.7	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.1	.2	.0	.3		5.1
NE	*	.0	.1	.1		6.6
E	.1	.2	.3	.1		4.8
SE	5.3	7.3	8.8	5.6		4.7
S	12.8	15.4	18.4	8.1		4.5
SW	2.9	2.4	4.1	1.7		4.4
W	.9	.6	.6	.8		4.5
NW	.1	.2	.2	*		3.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	.3	.5		3.0
TOT OBS	237	269	332	173	1011	4.5
TOT PCT	23.4	26.6	32.8	17.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.5	
NE	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
E	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.5	
SE	.0	.0	.2	.5	4.2	3.7	.9	.5	*	*	16.6	
S	.0	.1	.3	2.5	6.7	6.9	.9	.3	*	*	36.3	
SW	.0	.0	.0	.8	2.2	1.0	*	.1	.0	.0	6.8	
W	.0	.1	.0	.3	.2	.3	.3	.0	.0	.0	1.8	
NW	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.1	.2	.0	.0	.0	.0	1.8	
TOT OBS	1	2	6	44	138	124	21	9	3	8	655	1011
TOT PCT	.1	.2	.6	4.4	13.6	12.3	2.1	.9	.3	.8	64.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>3500	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>2000	13.3	16.5	16.5	16.5	16.5	16.5	16.5	16.5
>1000	26.0	30.3	30.4	30.4	30.4	30.4	30.4	30.4
>600	29.9	34.7	34.9	34.9	34.9	34.9	34.9	34.9
>300	30.3	35.1	35.4	35.4	35.4	35.4	35.4	35.4
>150	30.5	35.3	35.6	35.6	35.6	35.6	35.6	35.6
>0	30.6	35.4	35.7	35.7	35.7	35.7	35.7	35.7
TOTAL	315	365	368	368	368	368	368	368

TOTAL NUMBER OF OBS: 1030

PCT FREQ NH <5/8: 64.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.4	11.7	14.2	14.5	14.2	7.1	8.8	6.8	13.2	.1	1066

PFA170: (PRIMARY) 1912-1976
(OVER-ALL) 1868-1976

MAY

AREA 0014 LUANDA NW
5.95 8.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.4	.0	.1	.0	.0	.0	.6	.6
	TOT %	.0	.0	.0	.1	.4	.0	.1	.0	.0	.0	.6	.6
5<10	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.2	.3	.3	2.6	2.9	1.7	.5	.3	.0	.5	9.3	9.3
	TOT %	.2	.3	.3	2.7	2.9	1.8	.5	.3	.0	.5	9.5	9.5
10+	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.4	.2	.9	23.3	49.5	10.1	2.7	.5	.0	1.7	89.3	89.3
	TOT %	.4	.2	.9	23.4	49.6	10.1	2.7	.5	.0	1.7	89.5	89.5
TOT OBS													1110
TOT PCT		.5	.5	1.2	26.2	53.1	12.0	3.3	.7	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.1	.4	.0	.1	.0	.0	.0	.6	.6
5<10	0-3	.1	.0	.1	.1	.2	.2	.2	.1	.0	.5	1.4	1.4
	4-10	.1	.2	.2	1.9	1.9	1.2	.4	.2	.0	.0	6.0	6.0
	11-21	.0	.1	.0	.5	1.2	.2	.0	.0	.0	.0	2.0	2.0
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.2	.3	2.5	3.4	1.7	.5	.3	.0	.5	9.6	9.6
10+	0-3	.1	.1	.2	.9	1.8	.8	.5	.1	.0	1.6	6.2	6.2
	4-10	.3	.1	.8	13.3	34.2	8.4	2.2	.3	.0	.0	59.6	59.6
	11-21	.0	.2	.1	7.6	13.8	1.5	.0	.0	.0	.0	23.3	23.3
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	.3
	TOT %	.4	.4	1.1	22.0	50.1	10.7	2.7	.4	.0	1.6	89.4	89.4
TOT OBS													1273
TOT PCT		.5	.6	1.4	24.6	53.9	12.5	3.5	.7	.0	2.2	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1868-1976

MAY

AREA 0014 LUANDA NW
5.95 8.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.4	.0	.4	2.8	13.1	9.5	.8	.4	.0	1.6	29.0	71.0	252
06009	.0	.4	.8	6.4	14.3	15.8	3.8	.8	.0	.8	42.9	57.1	266
12015	.0	.0	.7	6.2	12.7	11.7	1.4	1.7	.7	1.0	36.1	63.9	291
18021	.0	.4	.4	2.0	14.6	11.4	2.4	.4	.4	.8	32.9	67.1	246
TOT	1	2	6	47	144	128	22	9	3	11	373	682	1055
PCT	.1	.2	.6	4.5	13.6	12.1	2.1	.9	.3	1.0	35.4	64.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.3	.0	.3	.3	10.7	88.4	328
06009	.0	.3	.3	1.6	11.2	86.6	321
12015	.3	.0	.0	.0	9.5	90.2	357
18021	.0	.0	.0	.7	8.1	91.2	295
TOT	2	1	2	8	129	1159	1301
PCT	.2	.1	.2	.6	9.9	89.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<500D	<1	<5	AND5+	AND 5+	OBS
00003	.8	1.2	4.6	25.7	69.7	241
06009	.0	1.1	8.4	35.9	55.7	262
12015	.0	.7	6.7	29.6	63.7	284
18021	.0	.8	3.7	29.6	66.7	243
TOT	2	10	61	312	657	1030
PCT	.2	1.0	5.9	30.3	63.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
90/94	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
85/89	.0	.0	.1	.1	1.0	.8	.4	.1	23	2.5
80/84	.0	.0	.0	.0	1.6	17.5	19.5	5.7	413	44.3
75/79	.0	.0	.0	.2	1.1	16.4	22.3	8.7	454	48.7
70/74	.0	.0	.0	.0	.1	1.8	1.6	.8	40	4.3
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	1	3	35	342	409	142	932	100.0
PCT	.0	.0	.1	.3	3.8	36.7	43.9	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.1	.0	.0	.0
85/89	.1	.0	.1	.3	1.6	.2	.1	.0	.0
80/84	.0	.2	.2	11.4	24.0	6.1	1.8	.3	.3
75/79	.3	.1	.8	12.5	25.8	5.4	1.8	.5	1.6
70/74	.1	.0	.0	1.4	2.1	.5	.0	.0	.1
65/69	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	.5	.3	1.0	25.7	53.6	12.2	3.8	.8	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	88	83	82	78	73	71	66	78.2	622
06009	89	84	82	79	74	71	70	78.6	446
12015	92	88	86	81	76	73	64	80.9	673
18021	93	84	82	79	74	71	68	79.0	450
TOT	93	87	84	79	74	71	64	79.3	2191

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.8	1.2	28.6	49.0	20.4	83	245
06009	.0	.0	1.3	32.1	44.9	21.8	83	234
12015	.0	.4	8.7	47.3	36.0	7.6	78	264
18021	.0	.5	3.2	34.7	47.2	14.4	82	216
TOT	0	4	36	345	422	152	82	959

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1868-1976

MAY

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5.95 8.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.2	.0	.0	.0	2	.0	.2
11/13	.0	.0	.1	.3	.0	.1	.0	.0	5	.0	.5
9/10	.0	.0	.0	.2	.0	.0	.1	.1	4	.0	.4
7/8	.0	.1	.0	.1	.2	.5	.0	.0	9	.0	.9
6	.0	.0	.0	.2	.4	.4	.0	.0	10	.0	1.0
5	.0	.0	.4	.7	1.0	.5	.1	.0	27	.0	2.6
4	.0	.0	.0	.6	1.4	.5	.0	.0	26	.0	2.5
3	.0	.0	.5	.7	.9	.3	.0	.0	24	.2	2.1
2	.0	.1	.6	3.9	3.8	.4	.0	.0	92	.1	8.7
1	.0	.0	1.1	5.3	2.5	.2	.0	.0	94	.1	8.9
0	.0	.2	2.3	9.9	7.1	.1	.0	.0	205	.0	19.6
-1	.0	.1	2.2	9.7	7.0	.0	.0	.0	199	.0	19.0
-2	.1	.1	3.2	7.8	4.3	.0	.0	.0	163	.0	15.6
-3	.0	.2	1.5	3.4	.9	.0	.0	.0	63	.0	6.0
-4	.0	.1	1.6	3.9	.9	.0	.0	.0	68	.0	6.5
-5	.0	.6	.8	1.2	.6	.0	.0	.0	33	.1	3.1
-6	.0	.2	.3	.3	.0	.0	.0	.0	8	.0	.8
-7/-8	.0	.0	.7	.5	.0	.0	.0	.0	12	.0	1.1
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	2	17	161	510	324	30	2	1	1047	.5	1042
PCT	.2	1.6	15.4	48.7	30.9	2.9	.2	.1	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.4	2.1	.0	.0	.0	.0	2.5
1-2	.0	.5	.0	.0	.0	.0	.5	.2	7.0	1.1	.0	.0	.0	8.2
3-4	.0	.2	.0	.0	.0	.0	.2	.3	5.6	5.3	.0	.0	.0	11.2
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.9	4.0	.1	.0	.0	5.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.2	.0	.0	.0	1.0	.9	15.6	10.7	.3	.0	.0	27.5

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0014 LUANDA NW
5.9S 8.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	5.6	.3	.0	.0	.0	6.9	.4	1.7	.0	.0	.0	.0	2.1
1-2	.7	19.4	3.8	.0	.0	.0	23.9	.1	5.4	.4	.0	.0	.0	5.9
3-4	.2	11.4	8.1	.0	.0	.0	19.8	.0	1.0	.3	.0	.0	.0	1.3
5-6	.0	.7	3.9	.0	.0	.0	4.6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	37.2	17.9	.0	.0	.0	57.1	.5	8.0	.8	.0	.0	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.9	.0	.0	.0	.0	1.3	.0	*	.0	.0	.0	.0	.0	
1-2	.2	.4	.0	.0	.0	.0	.6	.1	.2	.0	.0	.0	.0	.3	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	1.4	.0	.0	.0	.0	2.0	.1	.2	.0	.0	.0	.0	.3	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	10.4	.3	.0	.0	.0	15.7	
1-2	2.3	32.7	5.2	.0	.0	.0	40.2	
3-4	.5	18.0	13.4	.0	.0	.0	31.9	
5-6	.0	1.6	8.1	.1	.0	.0	9.8	
7	.0	.0	2.1	.1	.0	.0	2.3	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	62.6	29.3	.3	.0	.0	100.0	752

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.3	13.4	13.4	4.0	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	3
6-7	.0	2.9	10.7	7.2	1.9	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	242	4
8-9	.0	1.0	2.6	4.5	2.6	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	5
10-11	.0	.8	.9	1.2	1.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	6
12-13	.0	.0	2.9	.5	.9	1.9	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	6
>13	.0	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	4.3	3.0	4.2	1.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	2
TOTAL	8.4	206	339	185	81	57	24	4	0	0	0	0	0	0	0	0	0	0	0	0	980	4
PCT	8.6	21.0	34.6	18.9	8.3	5.8	2.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1975
(OVER-ALL) 1868-1975

JUNE

AREA 0014 LUANDA NW
5.85 8.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	6.3	.0	87.3
SE	.4	.0	.0	.0	.0	.0	.0	.4	.9	.0	.4	.0	2.1	.0	96.2
S	.0	.0	.2	.0	.0	.0	.0	.2	.5	.0	.0	.0	.8	.0	98.5
SW	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.6	.0	97.9
W	.0	.0	4.7	.0	.0	.0	.0	4.7	.0	.0	6.3	.0	.0	.0	89.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	7.7	.0	84.6
TOT PCT	.1	.0	.3	.0	.0	.0	.0	.4	.5	.0	.5	.0	1.4	.0	97.1
TOT OBS:	937														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	.0	.9	.0	.0	.0	.0	.9	.4	.0	1.3	.0	2.2	.0	95.3
06009	.4	.0	.0	.0	.0	.0	.0	.4	.4	.0	.4	.0	.4	.0	98.4
12015	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.9	.0	97.7
18021	.0	.0	.5	.0	.0	.0	.0	.5	.9	.0	.9	.0	.9	.0	96.8
TOT PCT	.1	.0	.3	.0	.0	.0	.0	.4	.5	.0	.6	.0	1.4	.0	97.1
TOT OBS:	960														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	.8	.0	.0	.0	.0		1.6	3.6		1.0	2.7	2.0	.0	1.8	2.1	1.2	.0
NE	.2	.8	.0	.0	.0	.0		1.0	5.4		.8	1.6	2.1	.4	1.0	.3	.3	.0
E	.6	1.1	.3	.0	.0	.0		2.1	6.0		2.1	4.5	1.6	3.6	1.8	2.2	.4	4.5
SE	1.3	13.1	7.0	.3	.0	.0		21.6	9.4		18.7	17.6	22.0	28.6	23.9	20.1	22.7	24.6
S	2.9	31.4	12.3	.1	.0	.0		46.7	8.8		48.6	35.8	52.0	39.6	51.0	39.8	45.4	42.5
SW	2.8	12.2	1.4	.0	.0	.0		16.3	6.4		16.1	21.7	11.8	25.0	12.3	23.8	16.6	22.4
W	1.4	2.0	.1	.0	.0	.0		3.5	4.8		4.1	3.5	2.0	.0	1.9	5.7	6.2	2.6
NW	.6	1.0	.0	.0	.0	.0		1.6	4.7		3.2	2.4	.1	1.4	.8	3.0	1.5	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0		5.5	10.2	6.2	1.4	5.5	3.0	5.6	3.0
TOT OBS	317	1230	416	8	0	0	1971		7.7		382	187	355	70	420	167	323	67
TOT PCT	16.1	62.4	21.1	.4	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	1.5	.1	.0	.0	.0			1.6	3.6	1.5	1.6	1.9	1.0	
NE	.8	.2	.0	.0	.0			1.0	5.4	1.1	1.8	.8	.3	
E	1.5	.5	.1	.0	.0			2.1	6.0	2.9	1.9	2.0	1.1	
SE	6.8	13.2	1.7	.0	.0			21.6	9.4	18.4	23.1	22.8	23.0	
S	16.1	28.6	2.0	.0	.0			46.7	8.8	44.4	50.0	47.8	44.9	
SW	9.7	6.5	.1	.0	.0			16.3	6.4	17.9	14.0	15.6	17.6	
W	2.7	.7	.0	.0	.0			3.5	4.8	3.9	1.7	3.0	5.6	
NW	1.2	.4	.0	.0	.0			1.6	4.7	2.9	.4	1.4	1.3	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	5.6							5.6	.0	7.0	5.4	4.8	5.1	
TOT OBS	906	988	77	0	0	1971			7.7	569	425	587	390	
TOT PCT	46.0	50.1	3.9	.0	.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1910-1975
(OVER-ALL) 1808-1975

JUNE

AREA 0014 LUANDA NW
5.85 8.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	7.0	12.5	61.5	18.5	.5	.0	.0	7.3	100.0	569
06009	5.4	9.4	63.3	21.6	.2	.0	.0	7.8	100.0	425
12015	4.8	10.7	61.3	22.2	.3	.0	.0	7.9	100.0	587
18021	5.1	8.2	64.4	21.8	.5	.0	.0	7.8	100.0	390
TOT	111	206	1230	416	8	0	0	7.7		1971
PCT	5.6	10.5	62.4	21.1	.4	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL CLOUD	MEAN CLOUD COVER
				OBS	OBS	
N	.2	.0	.4	.1		5.2
NE	.2	.0	.0	.1		4.5
E	.5	.1	.2	.3		3.9
SE	5.6	6.7	7.1	6.7		4.8
S	17.9	11.6	15.2	13.5		4.5
SW	1.6	2.0	2.8	2.0		4.8
W	.5	.0	.2	1.0		5.8
NW	.2	.0	.3	.2		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.6	1.0		4.3
TOT OBS	232	172	222	207	833	4.6
TOT PCT	27.9	20.6	26.7	24.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.2		
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2		
.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.9		
.0	.0	.3	1.8	4.3	3.5	.5	.3	.2	.5	14.8		
.1	.0	.2	3.5	10.5	7.3	2.2	.3	.1	.4	33.4		
.0	.0	.1	.5	1.5	1.3	.3	.1	.0	*	4.7		
.0	.0	.0	.0	.3	.3	.5	.0	.0	.0	.6		
.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.5	.8	.1	.0	.1	.0	1.3		
1	0	5	48	145	113	32	7	3	9	470		833
.1	.0	.6	5.8	17.4	13.6	3.8	.8	.4	1.1	56.4		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)					= OR >0
				= OR >1	= OR >1/2	= OR >1/4	= OR >50YD		
= OR >6500	1.1	1.3	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >5000	1.9	2.1	2.4	2.4	2.4	2.4	2.4	2.4	
= OR >3500	4.4	6.0	6.3	6.3	6.3	6.3	6.3	6.3	
= OR >2000	16.1	19.3	19.7	19.7	19.7	19.7	19.7	19.7	
= OR >1000	30.4	36.6	37.4	37.4	37.4	37.4	37.4	37.4	
= OR >600	35.5	42.3	43.1	43.1	43.1	43.1	43.1	43.1	
= OR >300	35.8	43.0	43.9	43.9	43.9	43.9	43.9	43.9	
= OR >150	35.8	43.0	43.9	43.9	43.9	43.9	43.9	43.9	
= OR >0	35.9	43.1	44.0	44.0	44.0	44.0	44.0	44.0	
TOTAL	304	365	372	372	372	372	372	372	

TOTAL NUMBER OF OBS: 846

PCT FREQ NH <5/8: 56.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.4	9.3	11.2	11.4	9.4	5.2	7.4	11.3	21.4	.0	886

JUNE

PERIOD: (PRIMARY) 1910-1975
(OVER-ALL) 1868-1975AREA 0014 LUANDA NW
5.85 8.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.4	.4	.3	.0	.1	.0	.0	.1	1.4	
	TOT %	.1	.0	.4	.4	.3	.0	.1	.0	.0	.1	1.4	
5<10	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.6	3.1	5.6	.9	.5	.1	.0	1.0	12.0	
	TOT %	.2	.0	.6	3.2	5.7	.9	.5	.1	.0	1.0	12.2	
10+	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	NO PCP	.4	.6	.7	22.4	51.0	7.9	1.0	.5	.0	1.6	86.1	
	TOT %	.4	.6	.7	22.4	51.0	8.0	1.1	.5	.0	1.6	86.3	
TOT OBS													
TOT PCT													
		.7	.6	1.7	26.0	57.0	8.9	1.7	.6	.0	2.8	100.0	937

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.2	.0	.3	.0	.1	*	.1	*	.0	.2	.9	
	4-10	.2	.0	*	.1	.1	.1	.1	.0	.0	.0	.7	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.4	.0	.3	.3	.4	.2	.2	*	.0	.2	2.0	
5<10	0-3	.3	.0	.4	.3	.6	.4	.0	.3	.0	.9	3.1	
	4-10	*	.2	.1	1.5	3.1	.6	.5	.2	.0	.0	6.3	
	11-21	.0	.0	.1	.9	1.8	.1	.0	.0	.0	.0	2.9	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.2	.6	2.9	5.5	1.2	.5	.4	.0	.9	12.5	
10+	0-3	.3	.2	.1	.9	1.9	1.0	.8	.2	.0	1.4	6.7	
	4-10	.4	.3	.5	12.4	32.3	7.0	1.1	.3	.0	.0	54.2	
	11-21	.0	.0	.0	7.8	15.3	1.0	*	.0	.0	.0	24.1	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.6	.5	.6	21.2	49.6	9.0	1.9	.5	.0	1.4	85.3	
TOT OBS													
TOT PCT													
		1.3	.8	1.5	24.4	55.5	10.3	2.6	1.0	.0	2.6	100.0	1085

PERIOD: (PRIMARY) 1910-1975
(OVER-ALL) 1868-1975

JUNE

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.0	.5	3.6	18.3	12.2	3.0	.5	.0	.5	39.1	60.9	197
06009	.0	.0	2.2	7.9	20.6	17.1	5.7	1.3	.0	1.3	56.1	43.9	228
12015	.0	.0	.0	4.6	13.5	13.5	3.0	.4	1.3	1.3	37.6	62.4	237
18021	.0	.0	.0	6.7	17.5	9.8	3.6	1.0	.0	1.5	40.2	59.8	194
TOT	1	0	6	49	149	114	33	7	3	10	372	484	856
PCT	.1	.0	.7	5.7	17.4	13.3	3.9	.8	.4	1.2	43.5	56.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.0	.0	2.9	14.5	82.2	275
06009	.0	.0	.0	2.8	11.3	85.9	284
12015	.0	.0	.0	2.0	12.2	85.9	304
18021	.0	.0	.0	1.2	12.7	86.1	245
TOT	1	0	0	25	140	942	1108
PCT	.1	.0	.0	2.3	12.6	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	1.0	6.2	34.7	59.1	193
06009	.0	2.2	11.6	45.8	42.7	225
12015	.0	.0	6.0	32.1	62.0	234
18021	.0	.0	6.7	33.5	59.8	194
TOT	1	7	65	310	471	846
PCT	.1	.8	7.7	36.6	55.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
85/89	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
80/84	.0	.0	.0	.3	.8	2.4	1.3	.0	37	4.7
75/79	.0	.0	.0	.1	3.5	19.3	16.6	5.8	352	45.2
70/74	.0	.0	.1	.3	4.2	19.4	13.7	9.9	371	47.6
65/69	.0	.0	.0	.1	.3	.9	.0	.6	15	1.9
60/64	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
55/59	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	1	6	69	328	247	128	779	100.0
PCT	.0	.0	.1	.8	8.9	42.1	31.7	16.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.1	.0	.0	1.4	2.9	.0	.1	.1	.0	.0
.1	.0	.3	11.5	27.2	3.7	1.2	.1	.0	1.0
.4	.3	.9	13.1	25.9	4.6	.5	.4	.0	1.4
.1	.0	.0	1.0	.6	.1	.1	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.7	.3	1.3	27.0	57.0	8.6	1.9	.7	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	79	78	73	68	65	59	73.3	565
06009	82	81	78	74	70	67	65	74.1	418
12015	90	84	82	76	71	68	68	76.3	571
18021	82	80	79	74	70	68	66	74.5	386
TOT	90	82	80	75	70	67	59	74.6	1940

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	6.5	37.2	33.7	22.6	81	199
06009	.0	.9	8.5	37.9	33.6	19.0	81	211
12015	.0	1.4	13.0	48.6	30.3	6.7	78	208
18021	.0	1.1	6.1	42.6	30.0	20.0	81	180
TOT	0	7	69	332	255	135	80	798

PERIOD: (PRIMARY) 1910-1975
(OVER-ALL) 1968-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.2
9/10	.0	.0	.0	.0	.1	.0	.2	.1	.0	4	.0	.5
7/8	.0	.0	.0	.0	.2	.4	.5	.0	.1	10	.0	1.2
6	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
5	.0	.0	.0	.0	.6	.7	.6	.0	.0	16	.0	1.9
4	.0	.0	.0	.2	.7	2.2	.5	.0	.0	31	.0	3.6
3	.0	.0	.1	.2	2.1	.9	.4	.0	.0	32	.0	3.8
2	.0	.0	.1	.7	3.9	3.5	.2	.0	.0	72	.1	8.3
1	.0	.0	.0	1.5	6.5	2.2	.7	.0	.0	93	.2	10.7
0	.0	.0	.4	3.6	10.9	3.9	.1	.0	.0	161	.2	18.7
-1	.0	.0	.0	3.1	12.1	2.0	.0	.0	.0	146	.0	17.1
-2	.0	.0	.1	2.2	8.2	3.8	.1	.0	.0	123	.1	14.3
-3	.0	.1	.1	2.5	5.3	.5	.0	.0	.0	72	.0	8.5
-4	.0	.0	.2	2.5	2.8	.7	.2	.0	.0	55	.0	6.5
-5	.1	.0	.1	.8	1.2	.0	.0	.0	.0	19	.0	2.2
-6	.0	.0	.0	.2	.1	.0	.0	.0	.0	3	.0	.4
-7/-8	.0	.0	.1	.4	.6	.0	.0	.0	.0	9	.0	1.1
-9/-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	12	154	471	179	31	2	1	852	6	846	
PCT	.1	.1	1.4	18.1	55.3	21.0	3.6	.2	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.5	.2	.2	.0	.0	.0	.0	.4
1-2	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.3	.8	2.3	.2	.0	.0	.0	3.2
1-2	.0	.1	.3	.0	.0	.0	.4	.2	9.5	1.4	.0	.0	.0	11.1
3-4	.0	.0	.0	.0	.0	.0	.0	.*	3.3	5.2	.0	.0	.0	8.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.*	2.5	.3	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.9	.3	.0	.0	.0	1.6	1.0	15.1	10.4	.9	.0	.0	27.4

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0014 LUANDA NW
5.85 8.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	4.2	.2	.0	.0	.0	5.8	.3	2.4	.0	.0	.0	.0	2.7
1-2	.5	19.3	3.6	.0	.0	.0	23.3	.3	3.9	.3	.0	.0	.0	4.4
3-4	.1	8.1	9.8	.0	.0	.0	18.0	.0	.7	.1	.0	.0	.0	.8
5-6	.0	1.2	4.8	.0	.0	.0	6.0	.0	.4	.1	.0	.0	.0	.5
7	.0	.0	1.5	.1	.0	.0	1.6	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	32.7	20.3	.1	.0	.0	55.1	.6	7.4	.8	.0	.0	.0	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2	
1-2	.1	.4	.0	.0	.0	.0	.5	.0	.4	.0	.0	.0	.0	.4	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	.0	.0	.0	.0	1.8	*	.5	.0	.0	.0	.0	.6	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	11.9	.3	.0	.0	.0	20.3	
1-2	1.2	33.0	5.4	.0	.0	.0	39.6	
3-4	.2	11.9	14.9	.0	.0	.0	26.9	
5-6	.0	1.7	7.3	.3	.0	.0	9.2	
7	.0	.0	2.6	.7	.0	.0	3.3	
8-9	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	58.4	31.2	1.0	.0	.0	100.0	606

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.8	13.9	10.6	4.7	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	280	3
6-7	.3	3.9	9.6	7.2	2.3	1.1	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201	4
8-9	.0	1.5	.9	4.4	3.9	2.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	6
10-11	.0	1.9	.9	2.5	2.1	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	5
12-13	.0	.0	1.6	.5	.6	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	5
>13	.0	.0	.0	.3	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
INDET	4.0	3.0	1.1	1.9	.5	.9	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	3
TOTAL	64	192	196	170	91	52	22	1	3	0	0	0	0	0	0	0	0	0	0	791	4
PCT	8.1	24.3	24.8	21.5	11.5	6.6	2.8	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975

JULY

AREA 0014 LUANDA NW
6.05 8.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	30.3	.0	63.6	
NE	.0	.0	10.4	.0	.0	.0	.0	10.4	.0	.0	2.6	.0	2.6	.0	84.4	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	80.0	
SE	.0	.2	.0	.0	.0	.0	.0	.2	.7	.0	1.4	.0	5.9	.0	91.9	
S	.0	.4	.3	.0	.0	.0	.0	.6	.3	.3	.6	.0	4.5	.0	93.6	
SW	.0	.2	.2	.0	.0	.0	.0	.4	.2	.0	.6	.0	9.7	.0	89.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	3.0	.0	13.1	.0	79.8	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.8	.0	.0	.0	.0	.8	.0	1.6	9.0	.0	5.7	.0	82.8	
TOT PCT	.0	.2	.4	.0	.0	.0	.0	.6	.3	.4	1.7	.0	6.0	.0	91.0	
TOT OBS:	1254															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.0	.0	.6	.0	.0	.0	.0	.6	.0	1.5	1.8	.0	5.9	.0		90.2
06009	.0	.9	.6	.0	.0	.0	.0	1.6	.3	.0	2.5	.0	6.3	.0		89.2
12015	.0	.0	.3	.0	.0	.0	.0	.3	.8	.0	.8	.0	6.1	.0		92.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.7	.0	6.8	.0		91.1
TOT PCT	.0															
TOT OBS:	1307	.2	.4	.0	.0	.0	.0	.6	.4	.4	1.7	.0	6.3	.0		90.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	.5	.7	.0	.0	.0	.0	1.2	4.4	.9	3.5	1.2	.0	1.5	.6	.7	.0	
NE	.5	1.2	.0	.0	.0	.0	1.7	4.5	.6	3.7	2.0	4.1	2.0	2.4	.9	.0	
E	.9	1.1	.1	.0	.0	.0	2.0	4.5	.6	2.8	3.8	5.1	2.9	.9	.6	1.7	
SE	2.0	13.4	4.3	.4	.0	.0	20.1	8.4	18.7	11.9	26.5	27.6	25.6	9.1	17.0	14.4	
S	5.1	30.0	8.6	.3	.0	.0	44.0	7.9	43.0	35.0	44.4	45.4	45.7	42.6	46.7	49.6	
SW	2.4	11.9	1.5	.0	.0	.0	15.9	6.4	17.9	22.5	9.5	14.8	11.5	24.9	17.6	21.6	
W	1.6	2.4	*	.0	.0	.0	4.0	4.4	5.0	5.1	1.2	1.0	1.9	7.4	6.5	5.9	
NW	.9	1.1	.0	.0	.0	.0	2.0	4.1	1.6	2.1	2.0	.0	1.5	3.3	2.5	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	9.2						9.2	.0	11.8	13.4	9.5	2.0	7.5	8.9	7.6	5.1	
TOT OBS	497	1334	312	15	0	0	2158		448	187	409	49	456	168	382	59	
TOT PCT	23.0	61.8	14.5	.7	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.0	.2	.0	.0	.0		1.2	4.4	1.7	1.0	1.2	.6	
NE	1.4	.2	.0	.0	.0		1.7	4.5	1.5	2.2	2.1	.8	
E	1.6	.4	.0	.0	.0		2.0	4.5	1.3	3.9	2.3	.7	
SE	8.1	11.2	.6	.2	.0		20.1	8.4	16.7	26.6	21.2	16.7	
S	19.5	22.8	1.7	.0	.0		44.0	7.9	40.6	44.5	44.8	47.1	
SW	10.0	5.7	.1	.0	.0		15.9	6.4	19.2	10.0	15.1	18.1	
W	3.3	.7	.0	.0	.0		4.0	4.4	5.0	1.2	3.4	6.4	
NW	1.7	.3	.0	.0	.0		2.0	4.1	1.8	1.7	2.0	2.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	9.2						9.2	.0	12.3	8.7	7.9	7.3	
TOT OBS	1205	895	51	7	0	2158		6.6	635	458	624	441	
TOT PCT	55.8	41.5	2.4	.3	.0		100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975AREA 0014 LUANDA NW
6.05 8.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WINN 11-21	SPEED (KNOTS) 22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	12.3	13.1	59.2	14.5	.9	.0	.0	6.4	100.0	635
06609	8.7	15.7	60.9	14.4	.2	.0	.0	6.5	100.0	458
12615	7.9	13.3	64.6	13.3	1.0	.0	.0	6.7	100.0	624
18621	7.3	13.6	62.6	16.1	.5	.0	.0	7.0	100.0	441
TOT	199	298	1334	312	15	0	0	6.6		2158
PCT	9.2	13.8	61.8	14.5	.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.1	.1	.2		3.7
NE	.1	.1	.2	.5		6.6
E	.3	.2	.5	.8		5.9
SE	5.7	3.2	6.7	10.4		5.4
S	12.2	6.6	15.0	20.0		5.3
SW	2.3	1.3	2.2	2.2		4.5
W	.6	.1	.3	.6		4.5
NW	.4	.1	.1	.3		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	1.2	2.9		5.0
TOT OBS	237	121	261	378	997	5.2
TOT PCT	23.8	12.1	26.2	37.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	
NE	.0	.0	.0	.2	.1	.1	.1	.0	.1	.0	.3	
E	.0	.0	.1	.2	.3	.4	.1	.0	.0	.0	.7	
SE	.1	.0	.1	1.2	8.2	3.8	1.4	.0	.4	.1	10.7	
S	.1	.1	.3	4.7	12.7	9.2	2.3	.5	.4	.3	23.4	
SW	.1	.0	.1	.7	1.6	.8	.1	.0	.1	.2	4.4	
W	.1	.0	.0	.1	.3	.2	.0	.0	.1	.1	.8	
NW	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.1	.0	.1	1.3	.9	.2	.1	.1	.4	3.2	
TOT OBS	6	2	5	72	246	155	42	6	11	11	441	997
TOT PCT	.6	.2	.5	7.2	24.7	15.5	4.2	.6	1.1	1.1	44.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	2.0	2.1	2.2	2.2	2.2	2.2	2.2
>5000	1.9	2.5	2.6	2.7	2.7	2.7	2.7	2.7
>3500	5.3	6.6	6.9	7.0	7.0	7.0	7.0	7.0
>2000	17.3	21.7	22.3	22.4	22.4	22.4	22.4	22.4
>1000	37.8	45.1	46.3	46.5	46.5	46.5	46.5	46.5
>600	43.6	52.2	53.5	53.7	53.7	53.7	53.7	53.7
>300	43.8	52.8	54.2	54.4	54.4	54.4	54.4	54.4
>150	43.9	52.9	54.3	54.5	54.6	54.6	54.6	54.6
>0	44.1	53.1	54.7	55.2	55.3	55.3	55.3	55.3
TOTAL	450	542	558	563	564	564	564	564

TOTAL NUMBER OF OBS: 1020

PCT FREQ NH <5/8: 44.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
15.7	6.7	9.0	7.3	5.8	6.7	6.7	9.6	32.0	.7	1067

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975

JULY

AREA 0014 LUANDA NW
6.05 8.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* *	.0	.1	*	* *	.0	.0	.0	.0	.1	.3
	TOT %	*	*	.0	.1	*	*	.0	.0	.0	.1	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.0	.4	.4	.1	.0	.0	.6	1.6
	TOT %	.0	.0	.2	.0	.4	.4	.1	.0	.0	.6	1.6
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	* *	.1	.6	.5	.2	.0	.1	.0	.7	2.2	
	TOT %	*	.1	.1	.6	.5	.2	.0	.1	.0	.7	2.2
5<10	PCP	.0	.1	.0	*	.2	.0	.0	.0	.0	.1	.4
	NO PCP	.5	1.0	1.0	4.3	8.5	2.6	1.1	1.5	.0	4.9	25.5
	TOT %	.5	1.1	1.0	4.3	8.7	2.6	1.1	1.5	.0	5.0	25.9
10+	PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.2
	NO PCP	.1	.3	.8	18.5	39.7	6.0	.8	.3	.0	3.3	69.8
	TOT %	.1	.3	.8	18.5	39.8	6.1	.8	.3	.0	3.3	69.9
TOT OBS		1253										
TOT PCT		.7	1.5	2.0	23.5	49.5	9.3	2.0	1.9	.0	9.7	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.2
	4-10	* *	.0	.1	*	*	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	*	.0	.1	.1	*	.0	.0	.0	.1	.4
1<2	0-3	.0	.0	.1	.0	.2	.1	*	.0	.0	.5	1.0
	4-10	.0	.0	.0	.0	.1	.3	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.4	.3	.1	.0	.0	.5	1.4
2<5	0-3	.0	.1	.1	.3	.1	.1	.0	.1	.0	.6	1.4
	4-10	* *	.0	.3	.4	.1	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	.1	.1	.7	.5	.2	.0	.1	.0	.6	2.4
5<10	0-3	.2	.2	.5	.7	1.0	.4	.3	.8	.0	4.7	8.9
	4-10	.3	.8	.5	3.6	6.8	2.4	.8	.7	.0	15.9	
	11-21	.0	.0	.0	.2	1.5	*	.0	.0	.0	1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	1.0	1.0	4.5	9.3	2.9	1.2	1.5	.0	4.7	26.5
10+	0-3	.0	.1	.0	1.1	3.1	1.2	.3	.2	.0	2.9	8.8
	4-10	.1	.2	.6	11.8	27.3	5.9	.8	.1	.0	46.8	
	11-21	.0	.0	.1	5.1	7.6	.4	.0	.0	.0	13.2	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.7	18.1	38.3	7.5	1.1	.3	.0	2.9	69.2
TOT OBS		1425										
TOT PCT		.7	1.4	1.9	23.4	48.6	11.0	2.4	1.9	.0	8.9	100.0

JULY

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975

TABLE 10

AREA 0014 LUANDA NW
0.05 8.9EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.6	.4	.4	6.8	23.2	12.4	2.8	.4	1.6	.8	50.4	49.6	250
06009	.7	.0	1.1	10.8	27.6	22.0	5.2	.4	1.1	1.5	70.5	29.5	268
12015	.0	.4	.4	5.3	22.1	16.4	4.6	.7	1.1	1.1	52.0	48.0	281
18021	.4	.0	.8	5.4	22.0	9.1	3.7	.8	.4	.8	43.6	56.4	241
TOT	7	2	7	74	247	158	43	6	11	11	566	474	1040
PCT	.7	.2	.7	7.1	23.8	15.2	4.1	.6	1.1	1.1	54.4	45.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.3	2.8	3.1	30.1	63.7	386
06009	.3	.6	1.4	2.0	29.2	66.6	353
12015	.0	.5	1.7	1.9	25.3	70.6	411
18021	.0	.3	1.5	2.1	24.4	71.6	328
TOT	1	6	28	34	403	1006	1478
PCT	.1	.4	1.9	2.3	27.3	68.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.6	2.5	10.7	41.4	48.0	244
06009	.8	1.9	15.3	56.9	27.9	262
12015	.0	.7	7.9	44.8	47.3	277
18021	.4	1.3	8.0	36.3	55.7	237
TOT	7	16	107	460	453	1020
PCT	.7	1.6	10.5	45.1	44.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY YEAR								TOTAL	PCT
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	OBS	FREQ
85/89	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
80/84	.0	.0	.0	.0	.5	.3	.1	.0	9	.8
75/79	.0	.0	.0	.1	1.3	5.4	2.9	1.3	121	10.9
70/74	.0	.0	.0	.2	4.8	22.9	26.2	14.7	763	68.7
65/69	.0	.0	.0	.5	4.0	5.8	9.2	215	19.4	
60/64	.0	.0	.0	.0	.0	.0	.1	1	.1	
TOTAL	0	0	0	4	77	361	388	280	1110	100.0
PCT	.0	.0	.0	.4	6.9	32.5	35.0	25.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.1	.0	.0	.0	.0	.0
.0	.0	.0	.2	.4	.0	.0	.1	.0	.1
.2	.4	.2	2.6	5.0	1.1	.2	.5	.0	.7
.1	.7	.9	16.8	36.4	6.2	1.4	1.0	.0	5.2
.4	.5	.5	4.2	7.6	2.1	.5	.1	.0	3.4
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
.7	1.6	1.6	23.8	49.4	9.4	2.2	1.8	.0	9.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	77	74	71	66	64	61	70.5	652
06009	80	77	75	71	67	64	61	70.8	468
12015	87	82	78	73	69	66	61	73.1	629
18021	81	79	76	72	68	66	65	71.6	453
TOT	87	79	76	72	67	65	61	71.5	2202

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.7	3.0	22.8	36.3	37.3	85	303
06009	.0	.4	6.9	25.3	35.0	32.5	84	277
12015	.0	.3	12.1	43.8	30.8	13.0	79	315
18021	.0	.0	4.6	34.7	38.6	22.0	82	259
TOT	0	4	78	367	404	301	82	1154

PERIOD: (PRIMARY) 1924-1975
(OVER-ALL) 1868-1975

JULY

AREA 0014 LUANDA NW
6.05 8.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.2	.1	.0	4	.0	.3
9/10	.0	.0	.0	.1	.3	.0	.0	5	.1	.3
7/8	.0	.0	.0	.4	.1	.1	.0	7	.0	.6
6	.0	.1	.1	.6	.0	.2	.0	12	.0	.9
5	.0	.0	.7	1.9	.2	.1	.0	37	.1	2.8
4	.0	.2	1.5	1.3	.6	.0	.0	46	.1	3.6
3	.0	.3	.5	1.8	.3	.1	.0	38	.0	3.0
2	.0	.2	2.4	3.2	.4	.0	.0	79	.2	6.1
1	.0	.8	5.9	4.2	.3	.0	.0	142	.4	10.8
0	.1	1.3	12.8	7.2	.6	.1	.1	279	.3	21.7
-1	.0	1.6	11.5	3.3	.2	.0	.0	211	.2	16.5
-2	.1	1.4	9.6	2.3	.1	.0	.0	170	.2	13.3
-3	.0	.7	4.3	1.3	.1	.0	.0	82	.0	6.5
-4	.1	1.3	3.6	1.1	.1	.0	.0	77	.0	6.1
-5	.1	.4	1.7	1.0	.0	.0	.0	40	.2	3.0
-6	.0	.2	.7	.2	.0	.0	.0	13	.1	.9
-7/-8	.2	.8	.6	.1	.0	.0	.0	21	.1	1.6
-9/-10	.0	.1	.2	.0	.0	.0	.0	3	.0	.2
TOTAL	6		709		44		1	1266		1244
PCT	.5	118 9.3	380 56.0	30.0	3.5	.6	.1	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.1	.5	.0	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	.3	.1	.5	.0	.0	.0	.0	.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.4	1.4	1.7	.0	.0	.0	.0	3.1
1-2	.1	.5	.1	.0	.0	.0	.8	.6	8.8	.9	.0	.0	.0	10.3
3-4	.0	.0	.0	.0	.0	.0	.0	*	3.1	4.2	.2	.0	.0	7.6
5-6	.0	.0	.0	.0	.0	.0	.0	*	1.1	2.4	.0	.0	.0	3.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.1	.0	.0	.0	1.1	2.1	14.8	8.0	.2	.0	.0	25.1

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0014 LUANDA NW
6.05 8.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.0	7.3	.0	.0	.0	.0	9.2	.8	2.0	.0	.0	.0	.0	.0	2.8
1-2	2.0	19.3	2.9	.0	.0	.0	24.2	.6	2.3	.3	.0	.0	.0	.0	3.2
3-4	.4	9.6	6.7	.1	.0	.0	16.8	.0	.4	.3	.0	.0	.0	.0	.7
5-6	.3	2.6	2.4	.0	.0	.0	5.2	.0	.7	.0	.0	.0	.0	.0	.7
7	.0	.0	.9	.3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.6	38.6	13.1	.4	.0	.0	56.8	1.4	5.4	.6	.0	.0	.0	.0	7.4

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	.3	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	.0	.0	.2	
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	.7	.0	.0	.0	.0	1.0	.1	.3	.0	.0	.0	.0	.0	.5	93.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.8	12.8	.0	.0	.0	.0	24.6	
1-2	4.1	30.9	4.2	.0	.0	.0	39.2	
3-4	.7	12.9	11.0	.3	.0	.0	24.9	
5-6	.4	4.4	4.6	.0	.0	.0	9.4	
7	.0	.0	1.4	.3	.0	.0	1.7	
8-9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.0	61.0	21.5	.6	.0	.0	100.0	712

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.8	15.7	16.2	6.0	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	426	3
6-7	.1	2.0	7.0	6.1	4.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	5
8-9	.0	.3	1.7	6.3	2.7	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	5
10-11	.0	1.9	2.0	.9	.9	1.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	5
12-13	.0	.0	1.6	.7	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
>13	.0	.0	.0	.7	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	4.8	2.8	1.5	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	2
TOTAL	116	208	275	195	86	21	6	2	6	0	0	0	0	0	0	0	0	0	0	915	3
PCT	12.7	22.7	30.1	21.3	9.4	2.3	.7	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	90.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	16.7	.0	16.7	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	83.3
SE	.0	.0	1.1	.0	.0	.0	.0	1.1	1.5	.0	2.6	.0	1.9	.0	92.8
S	.3	.7	.6	.0	.0	.0	.0	1.6	.5	.0	.6	.0	.9	.0	96.4
SW	.1	.0	1.2	.0	.0	.0	.0	1.4	.7	.0	.0	.0	.7	.0	97.3
W	.0	.0	.0	.0	.0	.0	1.7	1.7	.0	.0	1.7	.0	.0	.0	96.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	1.7	.0	6.8	.0	89.8
TOT PCT	.2	.4	.8	.0	.0	.0	.1	1.4	.6	.1	1.1	.0	1.6	.0	95.1
TOT OBS:	1105														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603	.7	.0	1.4	.0	.0	.0	.0	2.1	.7	.4	1.1	.0	1.1	.0	94.7
06009	.0	.4	.7	.0	.0	.0	.0	1.1	.4	.0	1.4	.0	1.1	.0	96.1
12015	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	.6	.0	2.8	.0	96.0
18021	.0	1.2	1.2	.0	.0	.0	.0	2.4	1.2	.0	1.2	.0	1.2	.0	94.1
TOT PCT	.2	.3	.8	.0	.0	.0	.1	1.4	.6	.1	1.0	.0	1.6	.0	95.3
TOT OBS:	1143														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.8	.6	.1	.0	.0	.0	1.5	3.6	1.6	3.5	1.0	1.1	.7	2.6	1.9	.0		
NE	.7	.4	.0	.0	.0	.0	1.1	3.2	.4	2.2	2.4	.0	1.2	.7	.4	.0		
E	.5	.4	.1	.0	.0	.0	1.0	4.4	.9	2.6	1.3	2.2	.9	.0	.5	.8		
SE	2.3	10.0	3.5	.1	.0	.0	15.8	7.8	13.9	14.1	17.4	15.3	19.2	12.7	14.5	16.7		
S	5.8	33.8	8.1	.0	.0	.0	47.8	7.5	49.2	34.9	50.8	56.7	49.6	42.5	46.7	50.8		
SW	2.3	14.2	1.5	.0	.0	.0	18.0	6.6	18.3	14.7	14.2	16.8	16.7	20.2	22.3	27.0		
W	1.5	3.7	.1	.0	.0	.0	5.3	4.9	5.2	3.5	2.4	3.7	4.2	14.9	6.9	3.2		
NW	.5	1.6	.1	.0	.0	.0	2.2	5.5	2.3	5.1	2.0	1.1	1.7	2.3	2.0	.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	7.3						7.3	.0	8.3	19.2	8.7	3.0	5.8	4.0	4.7	1.6		
TOT OBS	427	1261	260	1	0	0	1949		400	156	358	67	411	151	343	63		
TOT PCT	21.9	64.7	13.3	.1	.0	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.5	.1	.0	.0	.0		1.5	3.6	2.1	1.0	1.2	1.6	
NE	1.0	.1	.0	.0	.0		1.1	3.2	.9	2.0	1.1	.4	
E	.8	.2	.0	.0	.0		1.0	4.4	1.4	1.4	.6	.6	
SE	8.0	7.0	.8	.0	.0		15.8	7.8	13.9	17.1	17.4	14.8	
S	22.2	24.4	1.2	.0	.0		47.8	7.5	45.2	51.7	47.7	47.4	
SW	10.2	7.8	.1	.0	.0		18.0	6.6	17.3	14.6	17.7	23.0	
W	4.3	1.0	.0	.0	.0		5.3	4.9	4.7	2.6	7.1	6.3	
NW	1.6	.6	.0	.0	.0		2.2	5.5	3.1	1.8	1.9	1.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.3						7.3	.0	11.3	7.8	5.3	4.2	
TOT OBS	1107	801	41	0	0	1949		6.5	556	425	562	406	
TOT PCT	56.8	41.1	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	11.3	12.9	60.4	15.1	.2	.0	.0	6.5	100.0	556
0600	7.8	14.8	64.2	13.2	.0	.0	.0	6.4	100.0	425
1200	5.3	15.1	68.0	11.6	.0	.0	.0	6.5	100.0	562
1800	4.2	15.8	66.5	13.5	.0	.0	.0	6.6	100.0	406
TOT	14.3	28.4	126.1	240	1	0	0	6.5		1949
PCT	7.3	14.6	64.7	13.3	.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.3	.2		5.1
NE	.1	.0	.0	.1		4.0
E	.2	.0	.3	.5		5.8
SE	1.1	2.3	4.7	8.1		6.3
S	7.2	4.9	11.9	33.3		6.4
SW	2.9	1.8	3.7	8.5		5.9
W	.8	.4	.3	1.3		5.1
NW	.1	.0	.0	.3		5.4
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.7	2.8		6.6
TOT OBS	116	86	195	488	885	6.2
TOT PCT	13.1	9.7	22.0	55.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	
NE	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
E	.0	.0	.1	.0	.1	.5	.0	.0	.0	.1	.2	
SE	.0	.0	.2	2.2	3.8	2.9	1.2	.7	.6	.4	4.9	
S	.2	.1	1.1	6.7	16.4	11.0	2.1	.7	.6	.6	17.8	
SW	.0	.0	.1	2.2	3.4	2.3	1.9	.3	.1	.2	6.2	
W	.0	.0	.0	.3	.3	.2	.6	.0	.0	.0	1.4	
NW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.7	.6	1.2	.3	.0	.0	.1	1.2	
TOT OBS	3	1	15	108	219	163	55	15	7	12	287	885
TOT PCT	.3	.1	1.7	12.2	24.7	18.4	6.2	1.7	.8	1.4	32.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>5000	3.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>3500	7.1	9.7	9.9	9.9	9.9	9.9	9.9	9.9
>2000	22.5	28.4	29.1	29.1	29.1	29.1	29.1	29.1
>1000	42.9	52.5	53.3	53.5	53.5	53.5	53.5	53.5
>600	53.3	64.4	65.5	65.6	65.6	65.6	65.6	65.6
>300	54.4	66.0	67.2	67.3	67.3	67.3	67.3	67.3
>150	54.4	66.0	67.3	67.4	67.4	67.4	67.4	67.4
>0	54.4	66.1	67.4	67.5	67.7	67.7	67.7	67.7
TOTAL	496	602	614	615	617	617	617	617

TOTAL NUMBER OF OBS: 911

PCT FREQ NH <5/8: 32.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBS	TOTAL OBS
7.1	5.8	6.3	7.6	5.3	5.7	5.9	11.6	44.6	.1	947

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.1	.*	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.0	.1	.2	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.2	.0	.0	.0	.0	.1	.6	
	TOT %	.0	.0	.0	.3	.2	.0	.0	.0	.0	.1	.6	
2<5	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.0	.0	.2	.7	.4	.0	.*	.0	.2	1.6	
	TOT %	.1	.0	.0	.3	.8	.4	.0	.*	.0	.2	1.8	
5<10	PCP	.0	.0	.0	.1	.4	.2	.0	.0	.0	.1	.8	
	NO PCP	.6	.3	.6	3.0	6.4	3.5	2.5	.5	.0	2.5	19.9	
	TOT %	.6	.3	.6	3.1	6.8	3.7	2.5	.5	.0	2.5	20.7	
10+	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.2	.5	12.4	44.6	12.7	2.7	.4	.0	2.5	76.2	
	TOT %	.2	.2	.5	12.4	44.8	12.7	2.7	.4	.0	2.5	76.4	
TOT OBS													1101
TOT PCT		1.0	.5	1.1	16.2	52.9	16.8	5.2	1.0	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.3	.0	.0	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.2	.3	.0	.0	.0	.0	.1	.6	
	4-10	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.4	.6	.0	.0	.0	.0	.1	1.1	
2<5	0-3	.0	.*	.*	.1	.5	.0	.1	.0	.0	.2	1.0	
	4-10	.1	.0	.0	.3	.4	.3	.0	.*	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.*	.*	.4	.8	.3	.1	.*	.0	.2	2.0	
5<10	0-3	.3	.2	.3	.6	1.5	1.0	.8	.3	.0	2.3	7.3	
	4-10	.3	.*	.2	1.6	4.9	3.5	1.5	.2	.0	.0	12.2	
	11-21	.0	.0	.1	.8	.7	.1	.0	.0	.0	.0	1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.3	.6	3.0	7.1	4.6	2.3	.4	.0	2.3	21.2	
10+	0-3	.1	.1	.2	1.4	3.6	1.6	.6	.2	.0	2.4	10.1	
	4-10	.1	.1	.2	7.3	32.6	10.4	1.9	.2	.0	.0	52.7	
	11-21	.0	.0	.1	3.3	7.5	1.1	.1	.1	.0	.0	12.3	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.2	.4	12.1	43.8	13.0	2.6	.4	.0	2.4	75.2	
TOT OBS													1252
TOT PCT		.9	.6	1.0	16.0	52.7	18.0	5.0	.9	.0	5.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.5	.5	.5	10.1	22.0	25.7	4.1	1.8	1.4	.5	67.0	33.0	218
06009	.4	.0	3.7	14.8	24.7	21.4	5.3	2.5	.8	.0	73.7	26.3	243
12015	.0	.0	.0	10.4	22.9	12.9	8.0	.4	1.2	3.2	59.0	41.0	249
18021	.5	.0	2.4	12.8	27.0	16.6	6.2	1.9	.0	1.4	68.7	31.3	211
TOT PCT	3 .3	1 .1	15 1.6	111 12.1	222 24.1	175 19.0	55 6.0	15 1.6	8 .9	12 1.3	617 67.0	304 33.0	921 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.6	.0	2.5	21.6	75.2	319
06009	.0	.6	.6	1.9	21.6	75.3	320
12015	.0	.0	2.5	1.4	21.7	74.4	360
18021	.0	.7	1.0	2.1	21.3	74.9	291
TOT PCT	0 .0	6 .5	14 1.1	25 1.9	278 21.6	967 75.0	1290 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.5	1.4	12.6	55.6	31.8	214
06009	.4	4.1	20.7	54.4	24.9	241
12015	.0	.0	11.8	48.0	40.2	246
18021	.5	2.9	17.1	52.4	30.5	210
TOT PCT	3 .3	19 2.1	142 15.6	478 52.5	291 31.9	911 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
80/84	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
75/79	.0	.0	.1	.6	2.1	2.1	.3	.5	53	5.3
70/74	.0	.0	.1	.1	4.1	16.2	34.4	15.1	704	69.9
65/69	.0	.0	.0	.0	.3	6.1	8.7	8.7	240	23.8
60/64	.0	.0	.0	.0	.2	.2	.0	.3	7	.7
TOTAL	0	0	2	53	249	455	246	1007	1007	100.0
PCT	.0	.0	.2	.2	5.3	24.7	45.2	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0
75/79	.1	.1	.0	.7	2.6	1.1	.5	.0	.0	.2
70/74	.6	.0	.5	10.6	38.7	11.9	2.6	.8	.0	4.3
65/69	.3	.5	.6	2.8	10.9	4.0	1.4	.2	.0	3.2
60/64	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3
TOTAL	.9	.6	1.1	14.4	52.4	17.2	4.5	.9	.0	7.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	75	73	70	66	63	62	69.9	566
06009	85	76	73	70	67	65	63	70.4	428
12015	86	80	77	72	68	65	64	72.5	562
18021	81	76	74	71	67	64	62	70.8	415
TOT	86	78	75	71	67	64	62	70.9	1971

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.3	16.7	44.2	35.9	86	276		
06009	.0	.4	4.0	23.5	42.6	29.5	84	251		
12015	.0	1.1	8.6	33.7	41.2	15.4	81	279		
18021	.0	.0	4.2	21.5	53.6	20.7	84	237		
TOT	0	4	53	250	471	265	83	1043		

AUGUST

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1867-1975AREA 0014 LUANDA NW
6.05 8.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
9/10	.0	.0	.2	.1	.0	.0	.0	3	.0	.3
7/8	.0	.0	.3	.0	.1	.0	.0	4	.0	.4
6	.0	.0	.4	.3	.1	.0	.0	8	.0	.8
5	.0	.0	.8	.8	.4	.1	.0	21	.0	2.1
4	.0	.1	.8	.7	.1	.1	.1	19	.0	1.9
3	.0	.2	1.5	1.4	.1	.1	.0	33	.1	3.1
2	.0	.0	3.2	3.3	.3	.0	.0	70	.1	6.8
1	.0	.3	7.9	4.3	.0	.0	.0	128	.1	12.4
0	.3	.8	16.6	5.6	.3	.0	.1	241	.3	23.3
-1	.1	2.0	14.7	2.4	.0	.0	.0	196	.2	19.0
-2	.0	2.4	10.9	1.5	.1	.1	.0	153	.2	14.8
-3	.0	1.1	4.6	.5	.0	.0	.0	63	.2	6.0
-4	.1	1.1	2.7	.4	.0	.0	.0	44	.0	4.3
-5	.0	.4	1.4	.2	.0	.0	.0	20	.0	2.0
-6	.0	.1	.3	.1	.0	.0	.0	5	.0	.5
-7/-8	.1	.5	.3	.0	.0	.0	.0	9	.0	.9
-9/-10	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7		679		16		2	1021	12	1009
PCT	.7	92	66.5	21.6	1.6	.4	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.3
1-2	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.9	1.9	1.2	.0	.0	.0	3.0
1-2	.0	.3	.0	.0	.0	.0	.3	.6	4.7	1.5	.0	.0	.0	6.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.1	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.3	.0	.0	.0	1.7
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.6	.2	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.1	.0	.0	.0	.6	1.5	8.8	5.5	.2	.0	.0	15.9

PERIOD: (OVER-ALL) 1963-1975

AUGUST

AREA 0014 LUANDA NW
6.05 8.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	3.5	8.0	.0	.0	.0	.0	11.5	.5	4.0	.0	.0	.0	.0	.0	4.5	
1-2	1.3	26.3	3.2	.0	.0	.0	30.7	.5	7.0	.6	.0	.0	.0	.0	8.1	
3-4	.6	7.8	5.3	.0	.0	.0	13.8	.0	1.5	.6	.0	.0	.0	.0	2.0	
5-6	.0	1.1	2.4	.0	.0	.0	3.5	.0	.6	.3	.0	.0	.0	.0	.9	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.2	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	43.3	11.4	.0	.0	.0	60.0	1.0	13.1	1.4	.0	.0	.0	.0	15.5	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.6	.0	.0	.0	.0	.6	*	.0	.2	.0	.0	.0	.0	.2	
1-2	.1	.9	.1	.0	.0	.0	1.1	*	.0	*	.0	.0	.0	.0	.1	
3-4	.0	.3	.2	.0	.0	.0	.5	.0	*	.0	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.8	.3	.0	.0	.0	2.2	.1	*	.2	.0	.0	.0	.0	.3	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.4	14.4	.3	.0	.0	.0	26.1	
1-2	2.9	38.9	5.2	.0	.0	.0	47.0	
3-4	.6	11.2	7.8	.0	.0	.0	19.7	
5-6	.0	2.0	3.8	.0	.0	.0	5.8	
7	.0	.0	.9	.2	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.2	.2	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.9	66.7	18.3	.2	.0	.0	100.0	651

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	7.4	16.3	12.6	2.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	346	2
6-7	.0	1.8	7.1	5.6	2.2	.9	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	5
8-9	.0	1.4	4.2	4.1	3.1	.6	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	5
10-11	.0	1.5	1.7	1.8	1.3	.6	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	5
12-13	.0	.0	1.5	2.1	.2	.9	.5	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	6
>13	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
INDET	4.1	3.7	3.4	2.1	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	3
TOTAL	101	215	267	162	75	29	11	1	11	1	0	0	0	0	0	0	0	0	0	0	873	4
PCT	11.6	24.6	30.6	18.6	8.6	3.3	1.3	.1	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY: 1910-1975
(OVER-ALL) 1867-1975

AREA 0014 LUANDA NW
5.85 8.78

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.2	.0	1.5	.0	.0	.0	.0	1.7	.5	.0	1.5	.0	.2	.0	96.0
S	.3	.7	.8	.0	.0	.0	.0	1.7	2.2	.4	.9	.0	.5	.0	94.4
SW	.4	.1	1.0	.0	.0	.0	.0	1.5	.8	.3	.2	.0	.1	.0	97.1
W	1.9	.0	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	96.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.9	.0	.0	.0	.0	1.9	1.9	.0	1.9	.0	1.9	.0	92.5
TOT PCT	.4	.4	.9	.0	.0	.0	.0	1.6	1.5	.3	.7	.0	.4	.0	95.4
TOT OBS: 1097															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	.4	.0	.7	.0	.0	.0	.0	1.1	1.1	.7	.7	.0	.4	.0	96.0
06009	.4	.7	1.8	.0	.0	.0	.0	2.8	2.1	.0	.7	.0	.4	.0	94.0
12015	.3	.0	.0	.0	.0	.0	.0	.3	2.3	.3	.6	.0	.0	.0	96.4
18021	.4	.8	1.1	.0	.0	.0	.0	2.3	.8	.0	.8	.0	.8	.0	95.4
TOT PCT	.4	.4	.9	.0	.0	.0	.0	1.6	1.6	.3	.7	.0	.4	.0	95.5
TOT OBS: 1130															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.4	.0	.0	.0	.0		.6	5.4	.4	1.3	.5	.0	.4	.3	.7	1.0	
NE	.1	.2	.1	.0	.0	.0		.4	6.3	.0	.0	.6	.0	1.1	.2	.3	.0	
E	.3	.4	.0	.0	.0	.0		.7	4.5	.3	1.3	.6	4.2	1.0	.8	.2	.0	
SE	1.2	5.4	1.4	.2	.0	.0		8.2	7.8	7.0	9.0	9.9	6.4	10.8	5.6	5.4	9.8	
S	3.8	32.6	7.8	.2	.0	.0		44.4	7.8	42.4	33.9	48.3	51.5	49.2	36.7	45.7	40.2	
SW	3.4	24.2	4.2	.0	.0	.0		31.7	7.2	32.9	33.7	27.4	29.9	26.8	42.6	33.8	36.8	
W	1.9	5.3	.4	.0	.0	.0		7.6	5.7	9.3	9.9	5.4	6.4	6.1	9.9	8.2	6.4	
NW	.3	1.1	.1	.0	.0	.0		1.5	5.6	2.5	2.2	1.2	.0	.3	2.2	1.8	.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.9							4.9	.0	5.1	8.6	6.1	1.5	4.5	1.9	3.9	5.4	
TOT OBS	318	1373	277	7	0	0	1975		7.0	394	186	358	66	404	162	331	74	
TOT PCT	16.1	69.5	14.0	.4	.0	.0		100.0		160.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	.3	.2	.0	.0	.0	.0		.6	5.4	.7	.4	.4	.7	
NE	.2	.2	.0	.0	.0	.0		.4	6.3	.0	.5	.8	.2	
E	.6	.1	.0	.0	.0	.0		.7	4.5	.6	1.1	.9	.1	
SE	3.9	4.0	.3	.1	.0	.0		8.2	7.8	7.7	9.4	9.3	6.2	
S	18.7	24.5	1.1	.0	.0	.0		44.4	7.8	39.7	48.8	45.6	44.7	
SW	16.0	15.2	.5	.0	.0	.0		31.7	7.2	33.2	27.8	31.3	34.4	
W	5.2	2.4	.1	.0	.0	.0		7.6	5.7	9.5	5.5	7.2	7.8	
NW	1.0	.5	.0	.0	.0	.0		1.5	5.6	2.4	1.0	.8	1.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.9							4.9	.0	6.2	5.4	3.7	4.2	
TOT OBS	1006	929	38	2	0	1975			7.0	580	424	566	405	
TOT PCT	50.9	47.0	1.9	.1	.0		100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GAT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	6.2	11.2	69.0	13.1	.5	.0	.0	0.9	100.0	580
06009	5.4	11.3	69.1	13.9	.2	.0	.0	6.9	100.0	424
12015	3.7	11.5	68.7	16.1	.0	.0	.0	7.2	100.0	566
18021	4.2	10.6	71.9	12.6	.7	.0	.0	7.0	100.0	405
TOT	97	221	1373	277	7	0	0	7.0		1975
PCT	4.9	11.2	69.5	14.0	.4	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.3	.1		5.6
NE	.1	.0	.1	.1		4.8
E	.0	.0	.2	.7		7.7
SE	.9	.7	2.7	5.8		6.7
S	6.0	6.4	16.2	26.1		6.2
SW	3.0	2.3	8.2	11.6		6.2
W	.8	.5	1.1	1.7		5.5
NW	.1	.0	.1	.6		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.5	.2	1.7		5.2
TOT OBS	106	91	258	426	881	6.2
TOT PCT	12.0	10.3	29.3	48.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.1	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
.0	.0	.0	.0	.4	.3	.1	.1	.0	.0	.0	.0
.0	.0	.1	1.4	2.6	2.1	.9	.0	.0	.3	2.7	
.3	.0	.5	6.2	16.4	8.9	2.6	.3	.2	.7	18.6	
.0	.0	.4	3.0	8.0	2.9	1.3	.5	.3	.5	8.3	
.0	.0	.0	.0	1.4	.5	.6	.0	.1	.0	1.5	
.0	.0	.0	.1	.3	.0	.1	.0	.1	.0	.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.5	.9	.1	.2	.0	.1	.0	1.6	
.3	0	8	99	269	130	52	8	7	13	292	881
.3	.0	.9	11.2	30.5	14.8	5.9	.9	.8	1.5	33.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>5000	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>3500	8.4	9.2	9.3	9.3	9.3	9.3	9.3	9.3
>2000	21.0	23.7	24.0	24.0	24.0	24.0	24.0	24.0
>1000	47.7	53.7	54.3	54.3	54.3	54.3	54.3	54.3
>600	57.2	64.8	65.4	65.4	65.4	65.4	65.4	65.4
>300	58.1	65.7	66.3	66.3	66.3	66.3	66.3	66.3
>150	58.1	65.7	66.3	66.3	66.3	66.3	66.3	66.3
>0	58.2	65.8	66.6	66.6	66.6	66.6	66.6	66.6
TOTAL	521	599	596	596	596	596	596	596

TOTAL NUMBER OF OBS: 895

PCT FREQ NH <5/8: 33.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
4.3	7.2	6.4	7.2	7.6	6.5	8.4	13.1	39.2	OBS
								.2	950

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.4	.3	.1	.0	.0	.1	1.0	
	TOT %	.0	.0	.0	.1	.5	.4	.1	.0	.0	.1	1.2	
5<10	PCP	.0	.0	.0	.0	.4	*	.1	.0	.0	.1	.6	
	NO PCP	.0	.1	.0	.9	4.6	6.2	1.2	.4	.0	2.4	15.8	
	TOT %	.0	.1	.0	.9	5.0	6.2	1.3	.4	.0	2.5	16.4	
10+	PCP	.0	.0	.0	.1	.4	.3	.0	.0	.0	.0	.7	
	NO PCP	.4	.2	.7	8.1	44.2	21.6	3.4	.7	.0	2.3	81.6	
	TOT %	.4	.2	.7	8.2	44.6	21.9	3.4	.7	.0	2.3	82.3	
TOT OBS													1097
TOT PCT		.4	.3	.7	9.2	50.1	28.6	4.8	1.1	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
2<5	0-3	.0	.0	.0	.0	.1	.3	.2	*	.0	.2	.9	
	4-10	.0	.0	.0	.1	.7	.4	*	.0	.0	.0	1.3	
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.9	.7	.2	*	.0	.2	2.2	
5<10	0-3	.0	.0	.0	.1	.6	1.5	.4	.2	.0	2.3	5.1	
	4-10	.0	.1	.0	.7	4.3	4.8	1.2	.2	.0	.0	11.3	
	11-21	.0	.0	.0	.3	.6	.5	.0	.0	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	1.1	5.5	6.8	1.5	.4	.0	2.3	17.7	
10+	0-3	.1	.0	.3	.9	3.1	1.8	.5	.1	.0	2.2	9.1	
	4-10	.2	.2	.3	5.1	32.1	18.5	2.7	.6	.0	.0	59.6	
	11-21	.0	.0	.1	1.7	6.4	2.5	.1	.1	.0	.0	10.9	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.2	.7	7.9	41.8	22.8	3.3	.8	.0	2.2	79.9	
TOT OBS													1253
TOT PCT		.3	.3	.7	9.2	48.2	30.3	5.0	1.2	.0	4.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.5	13.9	29.7	9.9	3.5	.5	.5	2.5	60.9	39.1	202
06009	.4	.0	.8	13.9	32.2	18.4	6.5	1.2	.4	.8	74.7	25.3	245
12015	.8	.0	1.2	6.8	26.4	16.0	6.4	2.0	2.0	1.6	63.2	36.8	250
18021	.0	.0	.9	9.4	31.6	13.7	7.1	.0	.0	.9	63.7	36.3	212
TOT	3	0	8	99	272	134	54	9	7	13	599	310	909
PCT	.3	.0	.9	10.9	29.9	14.7	5.9	1.0	.8	1.4	65.9	34.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	2.8	20.6	76.7	326
06009	.0	.0	.0	2.2	18.7	79.1	316
12015	.0	.0	.0	2.0	17.2	80.8	349
18021	.0	.0	.7	2.0	18.0	79.3	295
TOT	0	0	2	29	239	1016	1286
PCT	.0	.0	.2	2.3	18.6	79.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.5	16.1	47.7	36.3	193
06009	.4	1.2	16.9	58.4	24.7	243
12015	.8	2.0	8.8	54.6	36.5	249
18021	.0	1.0	11.0	52.9	36.2	210
TOT	3	11	117	481	297	895
PCT	.3	1.2	13.1	53.7	33.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.3	.2	.0	.0	5	.5
75/79	.0	.0	.0	.0	.7	6.0	8.7	1.4	167	16.8
70/74	.0	.0	.3	.5	.9	12.2	36.8	19.3	696	70.0
65/69	.0	.0	.0	.1	.6	2.3	5.4	3.8	122	12.3
60/64	.0	.0	.0	.0	.0	.1	.1	.2	4	.4
TOTAL	0	0	3	6	25	207	507	246	994	100.0
PCT	.0	.0	.3	.6	2.5	20.8	51.0	24.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.4	.1	.1	.0	.0	.0
.0	.0	.2	1.0	10.0	4.6	.5	.1	.0	.5
.3	.3	.6	5.8	34.3	20.6	3.6	.7	.0	4.0
.0	.0	.0	1.4	6.7	3.4	.3	.1	.0	.4
.0	.1	.0	.3	.0	.0	.0	.0	.0	.0
.3	.4	.8	8.4	51.3	28.7	4.4	.9	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	77	75	72	67	65	59	71.5	590
06009	84	77	76	72	68	65	63	72.0	429
12015	89	82	79	74	70	68	60	74.2	576
18021	78	77	76	73	68	66	59	72.4	409
TOT	89	80	77	73	68	65	59	72.6	2004

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	1.6	11.3	51.4	35.4	87	257
06009	.0	.8	1.2	15.4	54.5	28.1	85	253
12015	.0	1.5	6.3	34.3	39.1	18.8	81	271
18021	.0	.8	.8	22.0	55.5	20.8	84	245
TOT	0	9	26	215	512	264	84	1026

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FUG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.1	.1	.2	.1	.0	.0	5	.0	.5
7/8	.0	.0	.0	.1	.0	.2	.1	.0	.0	4	.0	.4
6	.0	.0	.0	.0	.2	.5	.1	.0	.0	8	.0	.7
5	.0	.0	.0	.2	.8	.5	.0	.0	.0	16	.0	1.5
4	.0	.0	.0	.3	.7	.7	.0	.0	.0	19	.1	1.7
3	.0	.0	.1	.6	1.6	.4	.1	.0	.0	30	.0	2.8
2	.0	.0	.1	2.8	4.0	.5	.0	.0	.0	79	.2	7.1
1	.0	.0	.6	4.9	5.2	.5	.1	.0	.0	122	.0	11.2
0	.0	.0	.2	7.2	7.5	.5	.0	.0	.0	166	.0	15.3
-1	.0	.0	.6	13.3	10.6	.5	.0	.0	.0	271	.0	25.0
-2	.0	.1	1.8	10.9	6.0	.2	.0	.0	.0	206	.3	18.7
-3	.0	.0	1.3	4.4	2.1	.2	.0	.0	.0	87	.0	8.0
-4	.1	.1	.5	2.0	.8	.0	.0	.0	.0	38	.1	3.4
-5	.0	.1	.6	1.2	.7	.0	.0	.0	.0	28	.1	2.5
-6	.0	.0	.0	.1	.2	.0	.0	.0	.0	3	.0	.3
-7/-8	.0	.0	.1	.2	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	1	3	63	523	440	50	0	0	1	1086	8	1078
PCT	.1	.3	5.8	48.2	40.5	4.6	.5	.0	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.4	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.3	1.9	.0	.0	.0	.0	2.3
1-2	.2	.4	.0	.0	.0	.0	.5	.9	4.2	.3	.0	.0	.0	5.4
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.4	.1	.0	.0	.0	1.0	1.2	7.2	2.5	.2	.0	.0	11.0

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0014 LUANDA NW
5.8S 8.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.8	8.3	.0	.0	.0	.0	10.0	.7	2.9	.2	.0	.0	.0	.0	.0	3.8
1-2	1.5	24.9	2.9	.0	.0	.0	29.2	.6	11.3	1.4	.0	.0	.0	.0	.0	13.3
3-4	.0	9.1	5.3	.1	.0	.0	14.5	.2	3.8	1.5	.0	.0	.0	.0	.0	5.5
5-6	.0	1.1	1.8	.0	.0	.0	2.9	.0	.2	.2	.0	.0	.0	.0	.0	.4
7	.0	.3	.4	.2	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.2	43.6	10.4	.3	.0	.0	57.4		1.5	18.3	3.3	.0	.0	.0	.0	23.1

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.2	.0	.0	.0	.0	1.3	*	.8	.0	.0	.0	.0	.0	.0	.8
1-2	.0	1.2	.2	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	.2	.0	.0	.0	2.8		*	.8	.0	.0	.0	.0	.0	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.2	15.4	.2	.0	.0	.0	22.8	
1-2	3.4	41.6	4.6	.0	.0	.0	49.6	
3-4	.2	13.3	8.2	.3	.0	.0	21.9	
5-6	.0	1.8	2.6	.0	.0	.0	4.5	
7	.0	.3	.6	.2	.0	.0	1.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.8	72.4	16.3	.5	.0	.0	100.0	649

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.1	11.7	13.7	3.1	.7	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	292
6-7	.0	1.8	10.2	7.9	1.5	1.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201
8-9	.2	1.6	2.2	3.7	3.2	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113
10-11	.0	1.8	3.8	2.7	1.2	1.2	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98
12-13	.0	.0	2.2	1.4	1.1	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
>13	.0	.0	.0	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
INDET	3.9	2.2	2.4	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85
TOTAL	78	162	293	181	68	37	20	6	4	0	0	0	0	0	0	0	0	0	0	0	849
PCT	9.2	19.1	34.5	21.3	8.0	4.4	2.4	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1866-1975AREA 0014 LUANDA NW
5.9S 8.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0	
NE	.0	10.7	.0	.0	.0	.0	.0	10.7	.0	.0	.0	.0	.0	.0	83.3	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
SE	.0	1.3	.2	.0	.0	.0	.0	1.5	2.0	.0	.0	.0	.0	.0	96.5	
S	.4	1.0	.3	.0	.0	.0	.0	1.7	2.4	.0	.0	.0	.3	.0	95.7	
SW	1.8	.9	1.4	.0	.0	.0	.0	3.5	1.4	.0	.2	.0	.1	.0	94.8	
W	.8	.0	.8	.0	.0	.0	.0	1.6	1.6	.0	.0	.0	.0	.0	96.9	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.3	4.3	8.7	.0	.0	.0	.0	17.4	4.3	.0	.0	.0	.0	.0	78.3	
TOT PCT	.9	1.1	.8	.0	.0	.0	.0	2.6	2.0	.0	.1	.0	.2	.0	95.2	
TOT OBS:	1307															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	1.3	.6	1.0	.0	.0	.0	.0	2.5	1.9	.0	.0	.0	.6	.0	.0	94.9
06009	1.5	1.7	.9	.0	.0	.0	.0	4.1	2.9	.0	.3	.0	.0	.0	.0	92.7
12015	.0	.8	.6	.0	.0	.0	.0	1.4	1.7	.0	.0	.0	.0	.0	.0	96.9
18021	1.0	1.0	.3	.0	.0	.0	.0	2.3	1.7	.0	.0	.0	.0	.0	.0	96.0
TOT PCT	.9	1.1	.8	.0	.0	.0	.0	2.6	2.1	.0	.1	.0	.2	.0	.0	95.1
TOT OBS:	1317															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.1	.0	.0	.0	.0		.1	4.4	.1	.3	.1	.0	.1	.0	.2	.0	
NE	.1	.1	.0	.0	.0	.0		.2	6.7	.3	.0	.2	.0	.1	.0	.3	.0	
E	.1	.2	.0	.0	.0	.0		.4	5.9	.4	1.2	.6	.0	.3	.3	.0	1.1	
SE	.4	4.0	1.8	.0	.0	.0		6.2	8.9	5.1	2.3	8.2	3.5	7.8	3.3	6.8	6.3	
S	1.7	30.0	10.4	.1	.0	.0		42.2	8.9	39.7	34.0	44.8	44.9	45.9	37.0	43.0	43.0	
SW	1.9	27.2	10.1	.1	.0	.0		39.3	8.8	41.7	40.8	36.4	45.7	36.3	44.7	38.3	44.9	
W	1.3	5.6	1.2	.0	.0	.0		8.2	7.2	8.9	12.6	6.5	4.3	5.6	12.8	9.5	4.8	
NW	.4	.9	.0	.0	.0	.0		1.2	4.8	1.7	2.0	.6	1.6	1.0	1.8	1.2	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2							2.2	.0	2.0	6.9	2.6	.0	2.8	.0	.8	.0	
TOT OBS	180	1503	522	4	0	0	2209		8.5	447	173	429	64	466	166	396	68	
TOT PCT	8.1	68.0	23.6	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-5	7-16	17-27	28-40	41+				00	06	12	18
N	.1	.0	.0	.0	.0	.1	4.4	.2	.1	.1	.2	
NE	.1	.0	.0	.0	.0	.2	6.7	.2	.2	.1	.3	
E	.3	.0	.0	.0	.0	.4	5.9	.6	.6	.3	.2	
SE	2.0	3.9	.3	.0	.0	6.2	8.9	4.3	7.6	6.6	6.7	
S	11.0	29.7	1.4	.0	.0	42.2	8.9	38.1	44.8	43.6	43.0	
SW	12.4	24.8	2.1	.0	.0	39.3	8.8	41.4	37.6	38.5	39.2	
W	4.1	3.9	.1	.0	.0	8.2	7.2	9.9	6.2	7.5	8.8	
NW	1.1	.2	.0	.0	.0	1.2	4.8	1.8	.8	1.2	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2					2.2	.0	3.4	2.2	2.1	.6	
TOT OBS	735	1387	87	0	0	2209	8.5	620	493	632	464	
TOT PCT	33.3	62.8	3.9	.0	.0		100.0	100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.4	5.5	65.6	25.3	.3	.0	.0	8.6	100.0	620
0600	2.2	7.1	69.4	21.3	.0	.0	.0	8.2	100.0	493
1200	2.1	6.5	69.0	23.1	.3	.0	.0	8.4	100.0	632
1800	.6	4.7	70.0	24.6	.0	.0	.0	8.7	100.0	464
TOT	48	132	1903	572	4	0	0	8.5		2209
PCT	2.2	6.0	68.0	23.6	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	.0	.1	.1		7.1
E	.1	.1	.0	.1		4.6
SE	.8	1.3	2.6	3.8		6.1
S	4.8	7.6	17.0	21.8		6.2
SW	3.7	3.9	11.5	14.7		6.1
W	.8	.7	1.3	1.2		5.2
NW	.1	.0	.2	.3		6.2
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.4	.8		6.1
TOT OBS	122	156	384	495	1157	6.1
TOT PCT	10.5	13.5	33.2	42.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
E	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
SE	.0	.0	.1	.8	3.0	1.1	.4	.0	.0	.0	.0	3.2
S	.2	.0	.6	6.3	16.8	6.3	1.5	.3	.1	.2	.18.8	
SW	.0	.0	.3	5.9	8.9	3.7	2.0	.2	.0	.3	12.4	
W	.0	.0	.3	.4	.7	.6	.0	.1	.0	.0	1.9	
NW	.0	.0	.1	.1	.0	.1	.3	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.4	.6	.1	.0	.0	.0	.0	.3	
TOT OBS	2	0	17	162	350	137	49	7	1	5	427	1157
TOT PCT	.2	.0	1.5	14.0	30.3	11.8	4.2	.6	.1	.4	36.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	4.5	5.2	5.3	5.3	5.3	5.3	5.3	5.3
= OR >2000	15.2	17.2	17.4	17.4	17.4	17.4	17.4	17.4
= OR >1000	42.5	47.3	47.5	47.5	47.5	47.5	47.5	47.5
= OR >600	55.2	61.2	61.4	61.5	61.5	61.5	61.5	61.5
= OR >300	56.1	62.5	62.9	63.0	63.0	63.0	63.0	63.0
= OR >150	56.1	62.5	62.9	63.0	63.0	63.0	63.0	63.0
= OR >0	56.2	62.6	63.1	63.1	63.1	63.1	63.1	63.1
TOTAL	654	729	734	735	735	735	735	735

TOTAL NUMBER OF OBS: 1164

PCT FREQ NH <5/8: 36.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	3.4	7.3	7.6	9.0	9.2	6.5	9.1	15.1	32.8	.1	1191

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
2<5	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	.2
	NO PCP	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.1	.2	.0	.0	.0	.1	.4	.4
5<10	PCP	*	*	.0	*	.3	.5	.1	.0	.0	.1	1.1	1.1
	NO PCP	.0	.0	.1	1.4	4.4	4.5	1.5	.1	.0	.5	12.3	12.3
	TOT %	*	*	.1	1.4	4.7	5.0	1.6	.1	.0	.5	13.4	13.4
10+	PCP	.0	.0	.0	.1	.5	.5	.0	.0	.0	.2	1.2	1.2
	NO PCP	.1	.2	.2	7.2	43.4	28.8	3.4	.6	.0	1.0	84.8	84.8
	TOT %	.1	.2	.2	7.3	43.9	29.3	3.4	.6	.0	1.1	86.1	86.1
TOT OBS		.1	.2	.3	8.7	48.7	34.7	4.9	.7	.0	1.8	100.0	1306
TOT PCT		.1	.2	.3	8.7	48.7	34.7	4.9	.7	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.1	.0	.2	.5	.1	.0	.0	.0	.9	.9
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.2	.6	.1	.0	.0	.1	1.0	1.0
5<10	0-3	*	*	.0	.1	.6	.5	.6	.1	.0	.5	2.4	2.4
	4-10	.0	.0	.0	1.1	4.0	4.5	.9	.0	.0	.0	10.5	10.5
	11-21	.0	.0	.1	.3	1.0	.7	.1	.0	.0	.0	2.1	2.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	*	.1	1.5	5.5	5.7	1.5	.1	.0	.5	15.0	15.0
10+	0-3	.0	*	.1	.2	1.7	1.0	.3	.1	.0	1.1	4.6	4.6
	4-10	.1	.1	.1	4.6	31.7	21.4	2.5	.4	.0	.0	60.7	60.7
	11-21	.0	.1	.0	2.0	9.5	6.3	.7	.0	.0	.0	18.5	18.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.2	6.8	42.8	28.6	3.6	.5	.0	1.1	83.8	83.8
TOT OBS		.1	.2	.3	8.3	48.5	35.0	5.2	.6	.0	1.7	100.0	1436
TOT PCT		.1	.2	.3	8.3	48.5	35.0	5.2	.6	.0	1.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.8	17.6	28.4	11.5	5.4	.4	.0	.0	64.4	35.6	261
06009	.0	.0	2.5	16.5	37.5	10.2	4.1	1.0	.0	.6	72.4	27.6	315
12015	.3	.0	1.3	10.7	23.2	14.1	4.1	.3	.3	.6	54.9	45.1	319
18021	.0	.0	1.1	11.3	31.3	12.0	3.3	.7	.0	.4	60.0	40.0	275
TOT	2	0	17	163	352	140	49	7	1	5	736	434	1170
PCT	.2	.0	1.5	13.9	30.1	12.0	4.2	.6	.1	.4	62.9	37.1	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	2.6	16.7	80.7	348
06009	.0	.3	.0	.8	15.4	83.5	376
12015	.0	.0	.3	.3	15.4	84.1	390
18021	.0	.0	.0	.6	13.0	86.4	332
TOT	0	1	1	15	219	1210	1446
PCT	.0	.1	.1	1.0	15.1	83.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.4	1.2	19.3	45.6	35.1	259
06009	.0	2.6	19.6	53.2	27.2	312
12015	.3	1.6	12.3	42.8	45.0	318
18021	.0	1.1	12.4	47.6	40.0	275
TOT	2	19	184	551	429	1164
PCT	.2	1.6	15.8	47.3	36.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.0	.0	.0	.1	.0	2	.2
80/84	.0	.0	.0	.1	.1	2.8	2.0	.0	61	4.9
75/79	.0	.0	.0	.1	.9	12.6	28.8	6.7	605	49.1
70/74	.0	.0	.0	.0	1.4	11.8	20.4	8.6	521	42.3
65/69	.0	.0	.0	.0	.0	1.1	2.0	.5	44	3.6
TOTAL	0	0	1	2	29	348	658	195	1233	100.0
PCT	.0	.0	.1	.2	2.4	28.2	53.4	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
80/84	.0	.0	.0	.5	2.1	1.8	.1	.1	.0	.2
75/79	.1	.2	.0	2.2	22.5	19.9	2.8	.4	.0	1.0
70/74	.0	.2	.2	5.2	21.2	12.7	2.0	.2	.0	.7
65/69	.0	.0	.0	.8	2.0	.8	.0	.0	.0	.1
TOTAL	.1	.2	.2	8.6	47.9	35.4	4.9	.7	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	79	78	75	70	68	65	74.2	623
06009	86	81	78	75	69	67	61	74.4	496
12015	88	83	82	77	72	70	68	76.9	634
18021	82	81	79	75	70	68	65	75.0	463
TOT	88	82	80	75	70	68	61	75.2	2216

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.7	18.4	58.0	23.0	84	305
06009	.0	.3	2.1	23.6	54.9	19.0	83	326
12015	.0	.3	5.1	45.9	41.1	7.5	80	333
18021	.0	.4	1.4	23.5	60.5	14.2	83	281
TOT	0	3	30	352	663	197	83	1245

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	2	.0	.2
7/8	.0	.0	.1	.0	.0	.0	1	.0	.1
6	.0	.0	.0	.1	.7	.0	10	.0	.8
5	.0	.1	.2	.3	.6	.0	15	.0	1.2
4	.0	.2	.4	.6	.6	.0	23	.0	1.8
3	.0	.1	.6	1.1	.4	.0	27	.0	2.2
2	.0	.7	2.6	3.1	.9	.0	91	.0	7.3
1	.0	1.0	4.1	2.8	.3	.0	102	.0	8.2
0	.2	1.8	7.6	3.6	.2	.0	166	.0	13.3
-1	.1	4.7	10.9	5.1	.0	.0	258	.1	20.6
-2	.2	4.6	9.3	3.5	.1	.0	221	.0	17.7
-3	.6	2.6	6.3	1.4	.0	.0	135	.0	10.8
-4	.6	2.2	4.3	1.2	.0	.0	104	.0	8.3
-5	.2	1.3	2.1	.6	.0	.0	52	.0	4.2
-6	.1	.1	1.5	.2	.0	.0	23	.0	1.8
-7/-8	.0	.2	1.0	.0	.0	.0	15	.0	1.2
-9/-10	.0	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	25	244	635	294	46	2	1246	1	1245
PCT	2.0	19.6	51.0	23.6	3.7	.2	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.9
1-2	.0	.1	.0	.0	.0	.0	.1	.0	3.4	.2	.0	.0	.0	3.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.4	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.1	.0	.0	.0	.0	.3	.2	6.3	2.5	.0	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0014 LUANDA NW
5.95 8.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.8	5.3	.1	.0	.0	.0	6.3	.6	2.9	.0	.0	.0	.0	.0	3.5
1-2	.7	21.1	3.3	.0	.0	.0	25.1	.4	17.5	2.8	.0	.0	.0	.0	20.6
3-4	.1	8.9	5.0	.0	.0	.0	14.0	.0	3.2	3.8	.0	.0	.0	.0	7.0
5-6	.1	2.7	2.7	.0	.0	.0	5.6	.0	.4	.6	.0	.0	.0	.0	1.0
7	.0	.4	.8	.0	.0	.0	1.2	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.5	.1	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	39.2	12.1	.0	.0	.0	53.0	.9	24.1	7.3	.0	.0	.0	.0	32.4

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.2	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	.1
1-2	.0	1.7	.3	.0	.0	.0	1.9	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.2	.4	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.4	.7	.0	.0	.0	3.2	.1	.1	.0	.0	.0	.0	.2	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	9.4	.1	.0	.0	.0	13.3	
1-2	1.1	43.8	6.6	.0	.0	.0	51.5	
3-4	.1	14.0	10.7	.0	.0	.0	24.9	
5-6	.1	3.5	3.8	.0	.0	.0	7.4	
7	.0	.5	1.3	.0	.0	.0	1.8	
8-9	.0	.8	.1	.0	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	72.3	22.6	.0	.0	.0	100.0	849

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.1	13.1	13.5	5.7	1.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	429	3
6-7	.0	3.4	8.1	6.4	6.7	2.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	304	5
8-9	.0	.5	3.2	3.0	3.8	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	5
10-11	.0	.9	2.6	3.7	1.7	.2	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	5
12-13	.0	.0	2.3	1.7	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
>13	.0	.0	.0	.3	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	1.2	1.7	.8	.8	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	3
TOTAL	59	220	342	241	178	51	15	3	3	2	0	0	0	0	0	0	0	0	0	0	1118	4
PCT	5.3	19.7	30.6	21.6	15.9	4.9	1.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1868-1975

NOVEMBER

AREA 0014 LUANDA NW
5.95 8.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	5.9	.0	.0	.0	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	.0	82.4
SE	2.2	.7	3.4	.0	.0	.0	.0	6.2	1.5	1.3	.3	.0	.8	.0	90.4
S	.7	.9	1.0	.0	.0	.0	.0	2.6	2.6	.3	.3	.0	.3	.0	94.1
SW	.2	2.0	.0	.0	.0	.0	.0	2.8	3.2	.4	.2	.0	.3	.0	93.2
W	1.1	3.2	2.5	.0	.0	.0	.0	6.8	4.3	.0	.7	.0	.0	.0	88.3
NW	.0	8.9	.0	.0	.0	.0	.0	8.9	.0	.0	.0	.0	.0	.0	91.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	88.9
TOT PCT	.8	1.3	1.2	.0	.0	.0	.0	3.4	2.7	.4	.4	.0	.3	.0	92.9
TOT OBS:	1218														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.7	2.0	2.3	.0	.0	.0	.0	4.9	2.9	.7	.0	.0	.0	.0	91.5
06009	.3	1.0	2.0	.0	.0	.0	.0	3.3	3.9	.3	.3	.0	.7	.0	91.5
12015	.9	1.2	.3	.0	.0	.0	.0	2.4	2.7	.3	.6	.0	.3	.0	93.9
18021	1.4	1.0	.7	.0	.0	.0	.0	3.0	1.7	.3	.7	.0	.3	.0	94.3
TOT PCT	.8	1.3	1.3	.0	.0	.0	.0	3.4	2.8	.4	.4	.0	.3	.0	92.8
TOT OBS:	1237														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.3	.1	.0	.0	.0		.5	7.2	.3	2.3	.5	.0	.2	.7	.5	.0	
NE	.1	.1	.0	.0	.0	.0		.2	4.3	.0	.0	.5	.0	.0	.0	.3	.0	
E	.1	.7	.1	.0	.0	.0		.9	7.3	.9	1.6	1.6	.9	1.1	.0	.3	.0	
SE	.7	6.2	2.5	.1	.0	.0		9.5	8.5	8.8	7.0	9.6	10.0	10.7	8.2	8.9	19.0	
S	2.4	36.1	10.3	*	.0	.0		48.8	8.4	47.3	35.1	50.9	66.8	52.5	45.1	48.7	48.7	
SW	1.8	21.6	6.0	.1	.0	.0		29.4	8.4	29.8	32.8	28.0	19.5	27.2	34.0	31.3	27.2	
W	1.4	6.0	.6	*	.0	.0		8.1	6.7	10.7	16.8	5.8	2.7	4.4	10.5	8.0	5.2	
NW	.1	1.0	.2	.0	.0	.0		1.3	7.0	1.0	1.6	1.2	.0	2.4	1.6	.7	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4							1.4	.0	1.3	2.6	1.9	.0	1.5	.0	1.3	.0	
TOT OBS	160	1414	391	3	0	0	1968		8.1	399	153	369	55	401	153	380	58	
TOT PCT	8.1	71.8	19.9	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.3	.2	*	.0	.0	.0	.5	7.2	.8	.9	.4	.5
NE	.1	.1	.0	.0	.0	.0	.2	4.3	.0	.5	.0	.2
E	.5	.4	.0	.0	.0	.0	.9	7.3	1.1	1.5	.8	.3
SE	3.4	5.8	.3	.0	.0	.0	9.5	8.5	8.3	9.7	10.0	10.2
S	14.9	33.1	.7	.0	.0	.0	48.8	8.4	43.9	53.0	50.5	48.7
SW	9.8	19.1	.5	.0	.0	.0	29.4	8.4	30.6	26.9	29.1	30.8
W	4.1	3.8	.1	.0	.0	.0	8.1	6.7	12.4	5.4	6.1	7.6
NW	.7	.5	.1	.0	.0	.0	1.3	7.0	1.2	1.0	2.2	.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.6	1.7	1.1	1.1
TOT OBS	693	1239	36	0	0	1968		8.1	552	424	554	438
TOT PCT	35.2	63.0	1.8	.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
00003	1.6	9.2	70.3	18.5	.4	.0	.0	6.0	100.0	552
06009	1.7	6.6	72.6	18.9	.2	.0	.0	8.1	100.0	424
12015	1.1	6.1	71.5	21.3	.0	.0	.0	6.1	100.0	554
18021	1.1	4.5	73.5	20.8	.0	.0	.0	8.3	100.0	438
TOT	27	133	1414	391	3	0	0	6.1		1968
PCT	1.4	6.8	71.8	19.9	.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.3	8.0	
NE	.1	.0	.1	.0	2.5	
E	.1	.3	.4	.2	5.2	
SE	1.2	2.2	4.8	3.8	5.9	
S	6.3	7.9	21.0	19.7	5.9	
SW	2.5	3.0	10.3	5.9	6.1	
W	.6	.6	2.3	1.9	5.9	
NW	.3	.2	.1	.2	4.5	
VAR	.0	.0	.0	.0	.0	
CALM	.0	.1	.3	.4	6.8	
TOT OBS	120	156	427	385	1088	5.9
TOT PCT	11.0	14.3	39.2	35.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.7	
SE	.0	.0	.1	1.2	2.7	1.4	.7	.5	.3	.2	5.0	
S	.2	.0	.9	4.8	14.8	8.5	2.6	1.1	.1	.6	21.1	
SW	.1	.0	.3	2.0	5.7	5.1	1.0	.7	.1	.1	9.8	
W	.1	.0	.3	.4	1.0	1.2	.2	.2	.1	.0	1.8	
NW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.2	.0	.0	.0	.2	.1	
TOT OBS	4	0	18	94	270	179	51	27	6	11	428	1088
TOT PCT	.4	.0	1.7	8.6	24.8	16.5	4.7	2.5	.6	1.0	39.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50YD	> 0
> 6500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
> 5000	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0
> 3500	7.9	8.8	8.8	8.8	8.8	8.8	8.8	8.8
> 2000	23.1	25.1	25.2	25.2	25.2	25.2	25.2	25.2
> 1000	44.7	49.6	50.0	50.0	50.1	50.1	50.1	50.1
> 600	52.3	58.0	58.5	58.6	58.7	58.7	58.7	58.7
> 300	53.6	59.7	60.1	60.2	60.3	60.3	60.3	60.3
> 150	53.6	59.7	60.1	60.2	60.3	60.3	60.3	60.3
> 0	53.9	59.9	60.5	60.6	60.7	60.7	60.7	60.7
TOTAL	593	640	666	667	668	668	668	668

TOTAL NUMBER OF OBS: 1101

PCT FREQ NH < 5/8: 39.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
3.4	7.0	10.2	9.3	9.4	9.4	10.9	12.9	27.4	.2	1148

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.2	.2	*	.0	.0	.0	.0	.4	
	NO PCP	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.0	.2	.2	.2	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.1	.5	.5	.2	.2	.1	.0	.0	1.6	
	NO PCP	.2	.0	.3	1.4	4.5	3.6	1.1	*	.0	.1	11.3	
	TOT %	.2	.0	.4	1.9	5.0	3.8	1.4	.1	.0	.1	12.9	
10+	PCP	.0	.0	.0	.0	.6	.5	.1	.0	.0	.0	1.2	
	NO PCP	.2	.2	.7	10.0	47.2	21.0	4.2	.8	.0	.7	85.0	
	TOT %	.2	.2	.7	10.0	47.8	21.5	4.4	.8	.0	.7	86.2	
TOT OBS													1218
TOT PCT		.5	.2	1.0	12.2	53.1	25.6	5.8	.9	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
	11-21	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.1	.3	.2	.0	.0	.0	.0	.7	
5<10	0-3	.0	.0	.0	.0	.5	.5	.3	.0	.0	.1	1.4	
	4-10	.1	.0	.3	1.3	4.0	3.2	.7	.1	.0	.0	9.7	
	11-21	.1	.0	.1	.5	1.0	.4	.3	.0	.0	.0	2.5	
	22+	.0	.0	.0	.1	*	.1	*	.0	.0	.0	.2	
	TOT %	.1	.0	.5	1.9	5.5	4.3	1.3	.1	.0	.1	13.9	
10+	0-3	.1	.1	.0	.4	1.7	1.0	.2	.0	.0	.7	4.2	
	4-10	.1	.0	.5	6.5	34.5	15.8	4.0	.7	.0	.0	62.1	
	11-21	.0	.0	.1	2.9	10.7	4.8	.4	.1	.0	.0	18.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.6	9.7	46.9	21.6	4.6	.8	.0	.7	85.2	
TOT OBS													1334
TOT PCT		.4	.1	1.1	11.9	52.8	26.1	5.9	.9	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	1.1	.0	1.5	9.3	23.1	15.3	4.5	2.6	.7	1.1	59.3	40.7	268
06009	.4	.0	1.4	9.7	28.3	20.4	5.4	2.2	.7	1.4	69.9	30.1	279
12015	.0	.0	1.0	6.0	25.2	12.6	6.0	2.3	.7	1.0	54.8	45.2	301
18021	.0	.0	2.9	8.8	21.3	16.2	2.9	2.6	.0	.4	55.1	44.9	272
TOT	4	0	19	94	275	180	53	27	6	11	669	451	1120
PCT	.4	.0	1.7	8.4	24.6	16.1	4.7	2.4	.5	1.0	59.7	40.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.3	.0	.9	16.0	82.8	337
06009	.0	.0	.0	.9	13.6	85.5	332
12015	.0	.3	.3	.6	14.2	84.6	358
18021	.0	.0	.0	.6	11.3	88.0	326
TOT	0	2	1	10	187	1153	1353
PCT	.0	.1	.1	.7	13.8	85.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	1.1	3.1	13.4	47.9	38.7	261
06009	.4	1.5	11.6	58.9	29.5	275
12015	.0	1.3	8.1	47.7	44.3	298
18021	.0	3.0	12.4	43.8	43.8	267
TOT	4	24	124	546	431	1101
PCT	.4	2.2	11.3	49.6	39.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
80/84	.0	.0	.0	.1	.7	5.1	5.3	.7	135	11.9
75/79	.0	.0	.0	.1	1.9	16.1	36.6	9.5	731	64.2
70/74	.0	.0	.0	.1	.7	8.6	10.4	2.9	258	22.7
65/69	.0	.0	.0	.0	.0	.4	.4	.4	12	1.1
TOTAL	0	0	0	3	39	344	599	153	1138	100.0
PCT	.0	.0	.0	.3	3.4	30.2	52.6	13.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.1	.0	.1	.0	.0	.0
80/84	.0	.1	.2	1.8	5.3	3.7	.6	.1	.0
75/79	.2	.1	.5	6.4	34.8	18.1	3.3	.5	.4
70/74	.3	.0	.1	3.6	12.3	4.6	1.5	.1	.1
65/69	.0	.0	.0	.4	.4	.2	.1	.0	.0
TOTAL	.5	.2	.9	12.3	52.8	26.6	5.5	.7	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	83	81	79	76	72	68	63	75.9	560
06009	84	82	80	76	72	69	68	76.1	429
12015	88	84	82	78	74	71	67	78.2	549
18021	84	82	80	77	73	70	70	76.7	441
TOT	88	83	81	77	72	69	63	76.8	1979

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	1.0	24.0	59.2	15.7	83	287
06009	.0	.3	1.7	29.3	51.2	17.4	83	287
12015	.0	.7	9.2	40.3	41.3	8.5	80	305
18021	.0	.0	1.8	26.6	58.8	12.8	83	274
TOT	0	3	41	349	604	156	82	1153

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	W0 FOG
11/13	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.1	.1	.1	3	.0	.3
7/8	.0	.0	.0	.2	.2	.0	4	.0	.3
6	.0	.0	.0	.3	.3	.1	8	.1	.6
5	.0	.0	.1	.8	.3	.0	14	.0	1.2
4	.0	.0	.4	1.0	.8	.1	27	.0	2.3
3	.0	.0	.4	1.6	.5	.0	30	.1	2.4
2	.0	.0	1.5	2.9	1.4	.0	69	.2	5.6
1	.1	.2	3.4	6.3	.8	.0	129	.0	10.8
0	.1	.7	5.0	7.9	1.0	.0	174	.1	14.6
-1	.0	2.2	7.1	10.5	1.0	.0	247	.0	20.8
-2	.2	1.9	7.8	8.3	.3	.0	220	.0	18.5
-3	.1	1.3	5.5	3.4	.0	.0	121	.0	10.2
-4	.1	.3	3.5	2.4	.1	.0	75	.0	6.3
-5	.0	.4	1.4	1.1	.0	.0	35	.0	2.9
-6	.0	.0	1.3	.0	.0	.0	16	.0	1.3
-7/-8	.0	.2	.8	.2	.0	.0	13	.0	1.1
-9/-10	.1	.1	.0	.1	.0	.0	3	.0	.3
TOTAL	7	85	455	558	81	3	1189	5	1184
PCT	.6	7.1	38.3	46.9	6.8	.3	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1
1-2	.0	.2	.1	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.1	.0	.0	.0	.5	.5	.3	.0	.0	.0	.0	.0	.0	.3

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.1	.0	.0	.0	.0	.1	.1	.4	1.4	.0	.0	.0	.0	.0	1.8
1-2	.0	.5	.1	.0	.0	.0	.6	.6	*	5.1	.8	.0	.0	.0	.0	6.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	*	1.1	1.1	.1	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.1	.0	.0	.0	.7	.7	.4	7.9	2.7	.1	.0	.0	.0	11.2

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0014 LUANDA NW
5.95 8.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S							SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	5.9	.1	.0	.0	.0	7.4	.6	3.5	.0	.0	.0	.0	4.0
1-2	.8	28.0	4.0	.0	.0	.0	32.8	.6	9.6	2.3	.0	.0	.0	12.5
3-4	.1	8.6	5.7	.0	.0	.0	14.5	.0	3.0	2.0	.0	.0	.0	5.0
5-6	.0	1.0	1.9	.0	.0	.0	3.0	.0	.3	1.3	.0	.0	.0	1.5
7	.0	.1	.2	.0	.0	.0	.3	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	43.8	12.0	.0	.0	.0	57.9	1.1	16.4	5.6	.0	.0	.0	23.1

W							NW							TOTAL PCT	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	1.3	.0	.0	.0	.0	1.6	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	2.4	.1	.0	.0	.0	2.5	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.4	.3	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.2	.3	.0	.0	.0	4.8	.0	.8	.0	.0	.0	.0	.8	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	12.3	.1	.0	.0	.0	16.3	
1-2	1.6	46.0	7.5	.0	.0	.0	55.0	
3-4	.1	13.4	9.0	.1	.0	.0	22.7	
5-6	.0	1.6	3.9	.0	.0	.0	5.5	
7	.0	.1	.4	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	73.5	20.8	.1	.0	.0	100.0	803

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	19.2	18.6	5.4	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	511	3
6-7	.0	3.9	11.3	6.1	1.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	250	4
8-9	.0	2.6	4.4	1.8	1.6	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	4
10-11	.0	1.5	2.2	1.2	.8	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	4
12-13	.0	.0	1.5	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	4
>13	.0	.0	.0	.6	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	2
INDET	1.3	1.9	1.8	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1043	3
TOTAL	63	304	416	177	52	22	3	4	2	0	0	0	0	0	0	0	0	0	0	1043	3
PCT	6.0	29.1	39.9	17.0	5.0	2.1	.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1895-1975
(OVER-ALL) 1866-1975

DECEMBER

AREA 0014 LUANDA NW
5.85 8.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWK	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	30.8	15.4	.0	.0	.0	.0	53.8
NE	.0	13.8	.0	.0	.0	.0	.0	13.8	.0	.0	.0	.0	.0	.0	86.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.6	2.2	.4	.0	.0	.0	.0	3.0	1.9	2.2	.0	.0	.0	.0	92.9
S	1.5	.7	1.0	.0	.0	.0	.0	3.1	1.1	.3	.2	.0	.3	.0	95.0
SW	.4	.8	.4	.0	.0	.0	.0	1.5	3.1	.1	.0	.0	.1	.0	95.2
W	2.5	.0	.0	.0	.0	.0	.0	2.5	2.5	2.5	.0	.0	.0	.0	92.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	81.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	92.0
TOT PCT	1.1	1.0	.7	.0	.0	.0	.0	2.6	1.8	.7	.3	.0	.2	.0	94.4
TOT OBS:	1043														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.7	.7	.7	.0	.0	.0	.0	2.2	2.2	1.5	.4	.0	.0	.0	93.8
06009	1.5	.8	1.5	.0	.0	.0	.0	3.4	2.3	.8	.8	.0	.4	.0	92.5
12015	.7	1.7	.3	.0	.0	.0	.0	2.8	1.4	.3	.0	.0	.0	.0	95.5
18021	1.6	1.2	.4	.0	.0	.0	.0	3.3	1.2	.0	.0	.0	.4	.0	95.1
TOT PCT	1.1	1.1	.7	.0	.0	.0	.0	2.9	1.8	.7	.3	.0	.2	.0	94.2
TOT OBS:	1068														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OHS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.5	.0	.0	.0	.0		.6	5.0	.7	.9	1.4	.0	.6	.3	.0	.0	
NE	.3	.5	.0	.0	.0	.0		.8	5.3	.2	.6	.9	.0	1.0	2.0	.8	1.4	
E	.3	1.0	.1	.0	.0	.0		1.4	6.7	.4	1.3	2.6	1.6	2.7	.6	.3	1.4	
SE	1.3	7.6	1.9	.1	.0	.0		10.9	7.9	10.4	10.4	12.5	8.7	11.4	10.5	10.0	11.3	
S	2.6	32.0	10.4	.1	.0	.0		45.1	8.6	44.3	37.4	45.6	48.8	50.6	37.4	48.4	34.5	
SW	2.3	21.9	4.6	.2	.0	.0		29.0	7.9	27.6	28.1	26.4	32.1	26.0	37.2	31.1	41.5	
W	1.2	4.0	.6	.0	.0	.0		5.8	6.1	7.7	8.9	5.2	2.4	4.8	6.6	4.2	4.2	
NW	.3	1.1	.0	.0	.0	.0		1.5	5.2	1.8	4.1	1.3	3.2	.6	.9	1.3	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8							4.8	.0	7.0	8.2	4.1	3.2	2.5	4.6	3.9	5.6	
TOT OBS	283	1472	379	10	0	0	2144		7.6		446	194	390	63	447	174	359	71
TOT PCT	13.2	68.7	17.7	.5	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OHS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.5	.1	.0	.0	.0	.0	.6	5.0	.7	1.2	.5	.0	
NE	.5	.3	.0	.0	.0	.0	.8	5.3	.4	.8	1.3	.9	
E	.8	.6	.0	.0	.0	.0	1.4	6.7	.7	2.4	2.1	.5	
SE	4.6	6.1	.2	.0	.0	10.9	7.9		10.4	12.0	11.2	10.2	
S	14.4	29.4	1.3	.0	.0	45.1	8.6		42.2	46.1	46.9	46.1	
SW	12.7	15.3	1.1	.0	.0	29.0	7.9		27.7	27.2	29.1	32.8	
W	4.0	1.8	.0	.0	.0	5.8	6.1		8.0	4.8	5.3	4.2	
NW	1.1	.3	.0	.0	.0	1.5	5.2		2.5	1.5	.7	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	4.8					4.8	.0		7.3	4.0	3.1	4.2	
TOT OBS	931	1155	57	1	0	2144		7.6	640	453	621	430	
TOT PCT	43.4	53.9	2.7	*	.0				100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1895-1975
(OVER-ALL) 1866-1975

DECEMBER

AREA 0014 LUANDA NW
5.85 8.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	7.3	8.3	67.2	16.7	.5	.0	.0	.0	7.2	100.0	640
0600	4.0	8.4	68.9	18.3	.4	.0	.0	.0	7.8	100.0	453
1200	3.1	9.3	69.1	17.9	.6	.0	.0	.0	7.8	100.0	621
1800	4.2	7.4	70.0	18.1	.2	.0	.0	.0	7.6	100.0	430
TOT	102	181	1477	379	10	0	0	0	7.6		2144
PCT	4.8	8.4	68.7	17.7	.5	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.2	.0		5.5
NE	.1	.2	.2	.1		4.4
E	.2	.2	.2	.5		5.5
SE	.9	1.7	5.6	4.3		6.1
S	6.6	10.9	19.4	15.2		5.5
SW	4.5	4.0	11.5	7.1		5.5
W	.5	.6	2.0	.7		5.5
NW	.0	.1	*	.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.4	.5	.7		5.0
TOT OBS	124	170	371	269	934	5.5
TOT PCT	13.3	18.2	39.7	28.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.1	
NE	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.5	
E	.0	.0	.0	.0	.3	.0	.2	.1	.0	.0	.5	
SE	.2	.0	.1	1.3	2.9	2.6	.1	.0	.0	.3	5.0	
S	.1	.0	.7	5.4	9.6	7.6	2.0	.6	.3	.5	25.3	
SW	.0	.0	.6	1.1	4.7	3.4	3.1	.4	*	.2	13.8	
W	.0	.0	.1	.4	.5	.2	.3	.4	.0	.1	1.8	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.1	.0	.0	.1	.2	.1	.0	.1	.2	1.4	
TOT OBS	2	1	14	77	171	132	54	15	4	12	452	934
TOT PCT	.2	.1	1.5	8.2	18.3	14.1	5.8	1.6	.4	1.3	48.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSEY (NH)

CEILING (FEET)	VSEY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8
= OR >5000	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3
= OR >3500	8.9	9.1	9.2	9.2	9.2	9.3	9.3	9.3
= OR >2000	20.5	23.0	23.2	23.2	23.2	23.3	23.3	23.3
= OR >1000	36.6	40.8	41.3	41.4	41.4	41.5	41.5	41.5
= OR >600	44.5	49.1	49.6	49.7	49.7	49.8	49.8	49.8
= OR >300	45.8	50.5	51.0	51.2	51.2	51.3	51.3	51.3
= OR >150	45.8	50.6	51.2	51.3	51.3	51.4	51.4	51.4
= OR >0	45.9	50.8	51.4	51.5	51.5	51.6	51.6	51.6
TOTAL	439	486	491	492	492	493	493	493

TOTAL NUMBER OF OBS: 956

PCT FREQ NH < 5/8: 48.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	4.4	8.4	11.6	13.6	10.0	9.5	10.9	12.7	18.8	.1	1005

PERIOD: (PRIMARY) 1895-1975
(OVER-ALL) 1866-1975

DECEMBER

AREA 0014 LUANDA NW
5.8S 8.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.0	.2	.4	*	.0	.0	.0	.6	.6
	TOT %	.0	.0	.0	.0	.2	.5	*	.0	.0	.0	.7	
5<10	PCP	.0	.0	.0	.1	.5	.2	.0	.0	.0	.0	.8	.8
	NO PCP	.1	.1	.2	1.4	3.4	2.0	.1	.0	.0	.5	7.7	7.7
	TOT %	.1	.1	.2	1.5	3.8	2.2	.1	.0	.0	.5	8.4	
10+	PCP	.0	.1	.0	.3	1.2	.1	.1	.0	.0	.0	1.7	1.7
	NO PCP	.2	.5	1.1	11.0	46.6	23.7	3.7	.3	.0	1.8	89.0	89.0
	TOT %	.2	.6	1.1	11.3	47.8	23.8	3.8	.3	.0	1.8	90.7	
TOT OBS													1043
TOT PCT		.3	.7	1.3	12.9	51.8	26.5	3.9	.3	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.1	.2	.0	.2	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	.3
	4-10	.0	.0	.0	.2	.1	.4	*	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.3	.7	*	.0	.0	.0	1.2	
5<10	0-3	.0	.0	.0	.1	.1	.2	.1	.0	.0	.9	1.3	1.3
	4-10	.1	.1	.1	1.1	3.8	2.4	.1	.1	.0	.0	7.7	7.7
	11-21	.0	.0	.0	.2	.8	.4	.0	.0	.0	.0	1.5	1.5
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	TOT %	.1	.1	.2	1.4	4.8	3.0	.2	.1	.0	.9	10.6	
10+	0-3	.0	.1	.2	1.0	1.4	1.3	.9	.0	.0	1.8	6.7	6.7
	4-10	.2	.4	.5	7.3	32.3	19.6	3.1	.2	.0	.0	63.7	63.7
	11-21	.0	.0	.1	2.4	11.7	2.4	.3	.0	.0	.0	16.9	16.9
	22+	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.2
	TOT %	.2	.5	.9	10.7	45.4	23.4	4.3	.2	.0	1.8	87.5	
TOT OBS													1262
TOT PCT		.3	.7	1.2	12.5	50.5	27.3	4.5	.3	.0	2.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1895-1975
(OVER-ALL) 1866-1975AREA 0014 LUANDA NW
5.85 8.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH ANY HGT	TOTAL OBS
00003	.9	.4	.0	6.7	14.2	11.1	6.2	1.3	.9	1.8	45.6	56.4	225
06009	.0	.0	2.8	9.3	23.0	14.1	7.7	2.0	.8	.0	59.7	40.3	248
12015	.0	.0	1.1	10.0	18.9	13.3	4.4	1.5	.4	1.9	51.5	48.5	270
18021	.0	.0	1.7	6.0	14.7	16.4	5.2	1.3	.0	1.3	46.6	53.4	232
TOT PCT	2 .2	1 .1	14 1.4	79 8.1	174 17.8	134 13.7	57 5.8	15 1.5	5 .5	12 1.2	493 50.6	482 49.4	975 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	1.5	13.1	85.4	336
06009	.6	.0	.6	1.0	8.0	89.8	314
12015	.0	.0	.6	1.4	9.5	88.5	349
18021	.0	.0	1.0	1.0	11.8	86.2	289
TOT PCT	2 .2	0 .0	7 .5	16 1.2	136 10.4	1127 87.5	1288 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH AND 5+	TOTAL OBS
00003	.9	1.4	8.6	36.2	55.2	221
06009	.0	3.3	14.4	47.3	38.3	243
12015	.0	1.1	12.2	40.7	47.1	263
18021	.0	1.7	8.7	38.4	52.8	229
TOT PCT	2 .2	18 1.9	106 11.1	390 40.8	460 48.1	956 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.4	.5	.1	.0	11	1.2
80/84	.0	.0	.1	.2	1.9	8.0	9.3	2.1	203	21.8
75/79	.0	.0	.0	.0	1.7	21.0	33.3	10.1	617	66.1
70/74	.0	.0	.0	.0	.1	4.1	5.5	1.3	102	10.9
TOTAL	0	0	1	3	39	314	450	126	933	100.0
PCT	.0	.0	.1	.3	4.2	33.7	48.2	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.1	.4	.2	.2	.0	.0	.0
.0	.2	.1	2.3	11.7	6.2	.9	.1	.0	.2
.2	.1	.7	7.4	35.9	17.3	2.9	.1	.0	1.4
.0	.1	.0	2.5	6.0	2.3	.0	.0	.0	.1
.2	.5	1.0	12.3	54.0	26.0	4.0	.2	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	81	77	74	72	70	77.4	648
06009	87	84	82	78	73	72	68	77.5	460
12015	89	87	84	80	75	73	71	79.7	624
18021	88	84	82	78	74	72	69	78.1	430
TOT	89	85	82	78	74	72	68	78.2	2162

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.4	27.5	55.0	17.1	83	251
06009	.0	.4	4.2	24.7	51.9	18.8	83	239
12015	.0	1.2	9.4	49.0	30.6	9.8	79	255
18021	.0	.0	1.9	32.9	56.3	8.9	82	213
TOT	0	4	39	323	460	132	82	958

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PERIOD: (PRIMARY) 1895-1975
(OVER-ALL) 1866-1975

TABLE 17

AREA 0014 LUANDA NW
5.85 8.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.2	.2	.1	.0	5	.0	.5
9/10	.0	.0	.0	.1	.0	.1	.0	2	.0	.2
7/8	.0	.0	.1	.1	.7	.3	.1	13	.0	1.3
6	.0	.0	.1	.4	.0	.1	.0	6	.0	.6
5	.0	.0	.1	.3	.5	.2	.0	11	.0	1.1
4	.0	.0	.4	.4	.9	.2	.0	19	.1	1.8
3	.0	.0	.3	.9	.9	.0	.0	21	.0	2.1
2	.0	.0	.3	2.5	3.0	.1	.0	59	.0	5.8
1	.0	.0	1.1	4.9	2.7	.0	.0	88	.1	8.6
0	.0	.1	3.4	11.6	3.2	.1	.0	185	.0	18.3
-1	.0	.2	7.6	12.8	1.2	.0	.0	221	.0	21.8
-2	.0	.2	7.0	8.9	.8	.0	.0	171	.0	16.9
-3	.0	.4	5.6	4.1	.3	.0	.0	105	.0	10.4
-4	.1	.1	2.2	3.7	.3	.0	.0	64	.0	6.3
-5	.0	.2	1.3	1.5	.0	.0	.0	30	.0	3.0
-6	.0	.0	.2	.2	.0	.0	.0	4	.0	.4
-7/-8	.0	.3	.2	.1	.0	.0	.0	6	.1	.5
-9/-10	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
-14/-16	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	16	303	532	147	12	1	1012	.3	100.9
PCT	.1	1.6	29.9	52.6	14.5	1.2	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.1	.0	.0	.0	.3	.5	.8	.*	.0	.0	.0	1.3
1-2	.0	.6	.0	.0	.0	.0	.6	.*	4.5	.4	.0	.0	.0	4.9
3-4	.0	.2	.3	.0	.0	.0	.5	.0	2.8	1.8	.2	.0	.0	4.8
5-6	.0	.0	.0	.0	.0	.0	.0	.1	.8	.0	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.4	.0	.0	.0	1.3	.6	8.4	3.0	.2	.0	.0	12.1

PERIOD: (OVER-ALL) 1963-1975

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AREA 0014 LUANDA NW
5.85 8.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	5.1	.6	.0	.0	.0	6.1	.8	2.8	.0	.0	.0	.0	3.7
1-2	.8	22.7	2.7	.0	.0	.0	26.2	.2	11.0	.6	.0	.0	.0	11.7
3-4	.0	12.4	6.7	.0	.0	.0	19.2	.0	3.9	1.3	.0	.0	.0	5.2
5-6	.0	2.4	4.4	.0	.0	.0	6.8	.0	.7	.8	.3	.0	.0	1.9
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	42.7	14.8	.0	.0	.0	58.6	1.0	18.4	2.7	.3	.0	.0	22.4

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.8	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	97.2
1-2	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.2	.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.7	.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.4	9.5	.8	.0	.0	.0	16.6	643
1-2	.9	39.5	3.6	.0	.0	.0	44.0	
3-4	.0	19.3	10.1	.2	.0	.0	29.5	
5-6	.0	3.1	5.9	.3	.0	.0	9.3	
7	.0	.2	.3	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.3	71.5	20.7	.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	19.9	16.2	5.6	.6	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	408
6-7	.0	4.6	9.0	8.8	2.4	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	232
8-9	.0	1.6	3.4	3.2	2.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92
10-11	.0	.0	2.5	.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37
12-13	.0	.0	.0	1.1	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
>13	.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
INDET	2.4	1.3	2.3	1.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
TOTAL	53	261	285	194	50	22	5	2	1	0	0	0	0	0	0	0	0	0	0	0	873
PCT	6.1	29.9	32.6	22.2	5.7	2.5	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1895-1976
(OVER-ALL) 1860-1976

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	4.8	4.3	.0	.0	.0	.0	.0	9.0	5.6	3.0	2.0	.0	2.5	.0	77.9		
NE	4.7	4.0	.9	.0	.0	.0	.0	9.7	1.5	1.9	2.0	.0	1.6	.0	83.3		
E	2.9	1.3	.0	.0	.0	.0	.0	4.3	.8	2.4	1.8	.0	3.8	.0	87.0		
SE	.8	.5	.8	.0	.0	.0	.0	2.2	1.4	1.1	.7	.0	1.0	.0	93.7		
S	.7	.6	.5	.0	.0	.0	.0	1.8	1.5	.9	.3	.0	.7	.0	94.9		
SW	.9	.7	.7	.0	.0	.0	.0	2.2	1.7	1.4	.2	.0	1.0	.0	93.5		
W	2.0	.6	1.1	.0	.0	.0	.1	3.7	2.7	1.8	1.1	.0	1.1	.1	89.7		
NW	1.6	2.9	.5	.0	.0	.0	.0	5.0	1.6	3.2	.0	.0	1.2	.0	89.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.8	.9	1.1	.0	.0	.0	.0	2.8	1.8	1.1	2.7	.0	1.8	.0	90.0		
TOT PCT	1.0	.7	.6	.0	.0	.0	*	2.3	1.7	1.1	.5	.0	.9	*	93.6		
TOT OBS: 13822																	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00003	.9	.7	.8	.0	.0	.0	.0	2.2	1.4	3.0	.6	.0	.9	.0	91.9		
00009	1.3	.9	.9	.0	.0	.0	.0	3.1	2.2	.8	.7	.0	.8	*	92.4		
12015	.9	.7	.3	.0	.0	.0	*	2.0	1.6	.2	.3	.0	1.0	.0	95.0		
18021	1.1	.7	.4	.0	.0	.0	.0	2.1	1.5	.8	.5	.0	.9	.0	94.3		
TOT PCT	1.0	.8	.6	.0	.0	.0	*	2.4	1.7	1.2	.5	.0	.9	*	93.4		
TOT OBS: 14173																	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	.6	.1	*	.0	.0		1.0	5.3	.9	2.2	1.1	.3	.9	1.0	.9	.4	
NE	.2	.7	.1	*	.0	.0		1.0	5.8	.6	1.4	1.7	.8	1.2	.8	.6	.8	
E	.4	1.0	.2	*	.0	.0		1.5	5.9	1.1	2.5	2.4	1.8	1.9	.8	.6	1.5	
SE	1.2	3.1	3.3	.1	*	.0		13.8	8.4	12.4	11.2	15.7	15.5	16.2	10.2	12.9	13.8	
S	3.3	32.0	9.8	.1	*	.0		45.1	8.3	44.2	36.6	46.6	49.3	48.3	41.2	46.2	44.9	
SW	2.2	18.3	3.8	*	.0	.0		24.3	7.4	25.6	26.4	20.9	25.6	21.0	30.6	25.4	29.7	
W	1.4	4.6	.5	*	.0	.0		6.5	5.9	7.6	8.9	4.5	3.8	4.7	9.7	7.6	5.5	
NW	.5	1.5	.1	*	.0	.0		2.1	5.6	2.4	3.2	1.7	1.4	1.6	2.7	2.2	1.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.7							4.7	.0	5.3	7.6	5.5	1.4	4.3	3.1	3.7	2.4	
TOT OBS							25032		7.5	5118	2098	4573	779	5270	1965	4434	795	
TOT PCT	14.2	67.6	17.8	.3	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21			
N	.8	.2	*	.0	.0			1.0	5.3	1.3	1.0	.9	.8					
NE	.7	.3	*	.0	.0			1.0	5.8	.8	1.5	1.1	.6					
E	1.0	.5	*	.0	.0			1.5	5.9	1.5	2.3	1.6	.7					
SE	3.1	8.1	.6	*	.0			13.8	8.4	12.1	15.7	14.6	13.1					
S	16.4	27.3	1.4	*	.0			45.1	8.3	42.0	47.0	46.3	45.9					
SW	11.0	12.8	.5	*	.0			24.3	7.4	25.8	21.6	23.6	26.0					
W	4.2	2.3	.1	.0	.0			6.5	5.9	8.0	4.4	6.1	7.3					
NW	1.4	.6	*	.0	.0			2.1	5.6	2.7	1.6	1.9	2.0					
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0					
CALM	4.7							4.7	.0	6.0	4.9	4.0	3.5					
TOT OBS							25032		7.5	7216	5352	7235	5229					
TOT PCT	45.2	52.1	2.6	.1	.0			100.0		100.0	100.0	100.0	100.0					

PERIOD: (PRIMARY) 1895-1976
(OVER-ALL) 1860-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	6.0	10.1	66.6	17.0	.4	.0	.0	7.3 100.0	7216
06009	4.9	9.5	68.1	17.2	.3	.0	.0	7.5 100.0	5352
12015	4.0	9.6	67.3	18.8	.3	.0	.0	7.6 100.0	7235
18021	3.5	8.8	69.1	18.3	.3	*	.0	7.6 100.0	5229
TOT								7.5	25032
PCT	4.7	9.6	67.6	17.8	.3	*	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.2	.3		5.5
NE	.1	.1	.3	.3		5.6
E	.2	.2	.4	.5		5.5
SE	2.7	3.5	5.5	4.8		5.4
S	8.9	10.1	18.0	15.9		5.3
SW	3.1	3.1	7.2	6.1		5.3
W	.7	.6	1.4	1.3		5.3
NW	.2	.2	.3	.4		5.2
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.9	1.2		5.0
TOT OBS					12026	5.4
TOT PCT	16.8	18.3	34.1	30.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
*	.0	*	*	.1	.1	*	*	.0	*	.3	
*	.0	*	.1	.2	.1	*	*	*	*	.3	
.0	.0	*	.1	.2	.2	*	*	.0	*	.7	
*	.1	1.2	3.3	2.2	.7	.2	.1	.2	.2	8.5	
.1	*	.5	4.4	10.8	7.0	1.8	.5	.2	.4	27.2	
*	.2	1.7	3.9	2.4	1.0	.3	.1	.2	.2	9.8	
*	*	.1	.3	.7	.5	.3	.1	*	*	1.9	
*	.0	*	.1	.2	.1	.1	*	*	*	.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	*	*	.2	.5	.5	.1	*	*	.1	1.9	
.3	.1	1.0	8.0	19.8	13.1	4.1	1.0	.5	1.0	51.1	12026
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	2.2	2.5	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3500	5.5	6.5	6.6	6.6	6.7	6.7	6.7	6.7
= OR >2000	16.8	19.5	19.8	19.8	19.8	19.8	19.8	19.8
= OR >1000	33.9	39.0	39.4	39.5	39.5	39.5	39.6	39.6
= OR >600	40.7	46.8	47.4	47.5	47.5	47.6	47.6	47.6
= OR >300	41.4	47.7	48.4	48.5	48.5	48.6	48.6	48.6
= OR >150	41.5	47.8	48.4	48.6	48.6	48.6	48.6	48.6
= OR > 0	41.6	47.9	48.7	48.8	48.9	48.9	48.9	48.9

TOTAL NUMBER OF OBS: 12230

PCT FREQ NH < 5/8: 51.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
6.8	8.8	12.3	12.5	10.3	7.5	8.9	10.1	22.7	.2	12779

PERIOD: (PRIMARY) 1895-1976
(OVER-ALL) 1860-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.0	*	.0	.0	*	*	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	TOT %	.0	*	.0	.0	*	*	.0	.0	.0	*	*	.1
1/2<1	PCP	.0	.0	*	*	*	*	.0	*	.0	*	.1	
	NO PCP	*	*	.0	*	*	*	.0	.0	.0	*	.1	
	TOT %	*	*	*	*	*	*	.0	.0	.0	*	.1	
1<2	PCP	.0	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	*	.0	*	*	.1	*	*	.0	.0	.1	.2	
	TOT %	*	*	*	*	.1	.1	*	*	.0	.1	.3	
2<5	PCP	*	*	.0	*	.1	*	*	*	.0	*	.2	
	NO PCP	.1	*	.1	.1	.3	.2	*	*	.0	.1	.8	
	TOT %	.1	*	.1	.2	.3	.2	.1	*	.0	.1	1.1	
5<10	PCP	*	*	*	.2	.3	.2	.1	*	.0	*	.9	
	NO PCP	.2	.2	.3	1.9	4.5	2.5	1.1	.3	.0	1.2	12.2	
	TOT %	.2	.3	.4	2.0	4.8	2.7	1.1	.4	.0	1.2	13.1	
10+	PCP	*	*	*	.1	.4	.2	.1	*	.0	*	.9	
	NO PCP	.4	.5	1.0	13.9	45.1	16.9	3.3	.8	.0	2.5	84.3	
	TOT %	.4	.5	1.0	14.0	45.5	17.1	3.4	.8	.0	2.5	85.3	
TOT OBS		.7	.8	1.5	16.3	50.8	20.1	4.6	1.2	.0	3.9	100.0	13800
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	.0	.0	*	*	.0	.0	.0	*	*	
	11-21	.0	*	.0	.0	*	*	.0	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	TOT %	.0	*	.0	.0	*	*	.0	.0	.0	*	*	.1
1/2<1	0-3	.0	*	.0	*	*	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	*	*	.0	*	*	.0	*	.1	
	11-21	.0	.0	.0	.0	.0	*	.0	*	.0	*	*	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	.0	*	.0	*	.1	
1<2	0-3	.0	.0	*	*	*	*	*	.0	.0	.1	.2	
	4-10	*	*	*	*	.1	*	*	.0	.0	*	.2	
	11-21	.0	*	*	*	.0	*	*	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	
	TOT %	*	*	*	.1	.1	.1	*	*	.0	.1	.4	
2<5	0-3	*	*	*	*	.1	.1	*	*	.0	.1	.4	
	4-10	.1	*	*	.1	.3	.2	*	*	.0	*	.7	
	11-21	*	*	.0	*	.1	*	*	*	.0	*	.2	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	TOT %	.1	*	.1	.2	.4	.3	.1	*	.0	.1	1.4	
5<10	0-3	.1	.1	.1	.2	.5	.5	.3	.2	.0	1.2	3.1	
	4-10	.1	.2	.2	1.4	3.7	2.3	.7	.2	.0		8.9	
	11-21	*	*	.1	.4	1.0	.3	.1	*	.0		1.9	
	22+	.0	.0	.0	*	*	*	*	.0	.0		.1	
	TOT %	.2	.3	.4	2.0	5.3	3.1	1.1	.4	.0	1.2	14.0	
10+	0-3	.1	.1	.2	.8	2.3	1.4	.6	.1	.0	2.4	8.0	
	4-10	.3	.3	.6	8.7	32.0	13.8	2.7	.6	.0		59.1	
	11-21	*	.1	.1	3.8	10.1	2.3	.3	.1	.0		16.8	
	22+	.0	.0	.0	.1	.1	*	.0	.0	.0		.2	
	TOT %	.4	.5	1.0	13.5	44.4	17.5	3.5	.8	.0	2.4	84.0	
TOT OBS		.8	.8	1.4	15.8	50.3	21.1	4.8	1.2	.0	3.8	100.0	15541
TOT PCT													

PERIOD: (PRIMARY) 1895-1976
(OVER-ALL) 1860-1976

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AREA 0014 LUANDA NW
5.95 8.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.1	.6	7.4	18.3	12.0	3.2	.9	.6	.9	44.6	55.4	2899
06009	.2	.1	1.5	10.2	22.5	15.3	4.8	1.1	.4	.8	56.8	43.2	3232
12015	.2	*	.7	6.9	18.0	12.3	4.1	1.2	.8	1.4	45.5	54.5	3377
18021	.2	.1	1.0	7.0	18.9	12.1	3.9	.9	.3	1.0	45.3	54.7	2978
TOT PCT	.3	.1	1.0	7.9	19.5	13.0	4.0	1.0	.5	1.0	48.2	51.8	12486 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.1	.3	1.7	15.7	82.0	4004
06009	.1	.1	.3	1.4	14.6	83.4	3936
12015	*	.1	.5	1.2	13.3	84.8	4281
18021	*	.2	.5	1.2	13.1	85.0	3673
TOT PCT	.1	.1	.4	1.4	14.2	83.8	15894 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	1.5	9.9	36.2	53.9	2811
06009	.2	1.8	13.1	44.8	42.0	3173
12015	.2	1.0	8.6	37.6	53.8	3319
18021	.2	1.5	9.2	36.7	54.0	2927
TOT PCT	.3	1.5	10.2	39.0	50.8	12230 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	*	.1	*	.0	*	.1	
85/89	.0	.0	*	.1	.5	1.4	.3	*	2.3	
80/84	.0	.0	*	.1	1.7	12.1	14.5	2.7	31.1	
75/79	.0	.0	*	.1	1.2	10.5	15.7	5.4	32.9	
70/74	.0	.0	*	.1	1.4	8.1	12.5	6.2	28.3	
65/69	.0	.0	.0	*	.1	1.2	1.9	1.9	5.2	
60/64	.0	.0	.0	.0	*	*	*	*	.1	
55/59	.0	.0	.0	.0	.0	.0	.0	*	*	
TOTAL PCT	.0	.0	.1	.3	5.0	33.3	44.9	16.4	11980	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.7	1.3	16.3	51.0	20.4	4.6	1.2	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	81	79	76	72	69	59	76.0	7262
06009	90	82	80	76	72	69	61	76.2	5330
12015	93	86	83	78	74	71	60	78.5	7199
18021	93	82	80	77	73	70	59	76.9	5231
TOT	93	84	81	77	72	70	59	76.9	25022

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	2.3	25.8	49.2	22.4	84	3128
06009	.0	.3	3.1	28.3	47.2	21.1	83	3064
12015	.0	.7	10.3	44.6	34.8	9.6	79	3263
18021	.0	.3	3.6	33.1	49.2	13.9	82	2832
TOT	0	47	592	4022	5553	2073	82	12287

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PERIOD: (PRIMARY) 1895-1976
(OVER-ALL) 1860-1976

TABLE 17

AREA 0014 LUANDA NW
5.9S 8.6EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	*	*	*	.0	7	.0	.1
11/13	.0	.0	.0	.0	*	.1	.1	*	.0	.0	27	.0	.2
9/10	.0	.0	.0	*	*	.1	*	*	*	*	33	*	.3
7/8	.0	.0	.0	*	.1	.1	.2	.1	*	*	80	*	.6
6	.0	.0	*	*	.1	.2	.2	.1	*	.0	82	*	.6
5	.0	.0	.0	.1	.4	.3	.4	.3	.1	.0	218	*	1.6
4	.0	.0	*	.3	.4	.6	.6	.4	*	.0	312	*	2.4
3	.0	.0	.1	.2	.7	.6	.8	.2	*	.0	344	*	2.6
2	.0	.0	*	.8	1.6	1.7	2.1	.6	.0	.0	892	.1	6.7
1	.0	.0	.1	1.8	2.5	2.3	2.3	.3	.0	.0	1217	.1	9.2
0	.0	*	.2	3.6	4.2	4.4	5.1	.3	*	.0	2333	.1	17.7
-1	.0	*	.4	4.2	4.8	5.6	4.8	.1	.0	.0	2605	*	19.7
-2	.0	*	.5	3.4	3.9	5.2	4.2	*	.0	.0	2277	.1	17.2
-3	.0	*	.3	1.7	2.5	2.7	1.2	*	.0	.0	1104	*	8.4
-4	*	*	.3	1.1	1.5	2.2	1.3	*	.0	.0	876	*	6.6
-5	*	*	.1	.6	.8	1.1	.5	*	.0	.0	438	*	3.2
-6	.0	.0	*	.1	.4	.3	.1	.0	.0	.0	139	*	1.0
-7/-8	.0	*	.1	.2	.4	.4	.1	.0	.0	.0	155	*	1.2
-9/-10	.0	.0	*	*	.1	.1	*	.0	.0	.0	29	.0	.2
-11/-13	.0	*	*	*	*	*	.0	.0	.0	.0	11	.0	.1
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	.0	3	.0	*
TOTAL											13182		
PCT	*	.1	2.4	18.3	24.5	27.9	24.0	2.5	.3	*	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.3
1-2	*	.2	*	.0	.0	.0	.2	*	.2	*	.0	.0	.0	.2
3-4	.0	.1	*	.0	.0	.0	.1	*	*	*	.0	.0	.0	.1
5-6	.0	.0	*	.0	.0	.0	*	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.1	.0	.0	.0	.6	.1	.5	.1	.0	.0	.0	.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.4	.5	1.6	*	.0	.0	.0	2.2
1-2	.1	.5	.1	.0	.0	.0	.7	.3	6.0	1.0	.0	.0	.0	7.3
3-4	*	.1	.1	.0	.0	.0	.2	*	2.4	2.5	.1	.0	.0	5.0
5-6	.0	*	*	.0	.0	.0	*	*	.4	1.3	.1	.0	.0	1.7
7	.0	.0	*	.0	.0	.0	*	.0	*	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.2	.0	.0	.0	1.3	.9	10.4	5.2	.2	*	.0	16.7

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)AREA 0014 LUANDA NH
5.95 8.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.3	6.0	.2	.0	.0	.0	7.4	.6	2.5	*	.0	.0	.0	.0	3.2
1-2	.9	22.6	3.6	.0	.0	.0	27.1	.4	8.8	1.0	.0	.0	.0	.0	10.3
3-4	.2	8.9	6.1	*	.0	.0	15.2	.1	2.4	1.2	*	.0	.0	.0	3.7
5-6	*	1.4	2.7	.0	.0	.0	4.2	*	.5	.4	*	.0	.0	.0	.9
7	.0	.2	.6	.1	.0	.0	.8	.0	*	.1	.0	.0	.0	.0	.1
8-9	.0	.1	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.0	*
10-11	.0	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	39.1	13.3	.1	.0	.0	54.9	1.1	14.2	2.7	*	.0	.0	.0	18.1

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.8	*	.0	.0	.0	1.1	.1	.2	*	.0	.0	.0	.0	.3	
1-2	.1	1.4	.1	.0	.0	.0	1.7	*	.3	*	.0	.0	.0	.0	.4	
3-4	.0	.3	.1	.0	.0	.0	.4	*	.1	*	.0	.0	.0	.0	.2	
5-6	.0	.1	*	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	*	
7	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	
10-11	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.7	.3	.0	.0	.0	3.3	.1	.6	.1	.0	.0	.0	.0	.8	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.3	11.7	.3	.0	.0	.0	19.3	
1-2	2.1	39.6	5.9	.0	.0	.0	47.7	
3-4	.4	14.2	9.9	.1	.0	.0	24.6	
5-6	.1	2.4	4.3	.1	.0	.0	6.8	
7	.0	.2	1.0	.1	.0	.0	1.3	
8-9	.0	.1	.1	.0	*	.0	.2	
10-11	.0	*	.1	.0	.0	.0	.1	
12	.0	*	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	*	.0	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.9	68.2	21.6	.3	*	.0	100.0	8705

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.9	17.0	14.1	4.5	.9	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4783	3
6-7	.1	3.2	8.7	6.3	2.6	.9	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2534	4
8-9	*	1.2	3.2	3.7	2.4	.8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1318	5
10-11	.0	1.8	1.7	1.7	1.0	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	811	5
12-13	.0	.0	1.9	1.1	.5	.4	.2	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	474	5
>13	.0	.0	.0	.4	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	6
INDET	3.8	3.4	3.1	1.3	.3	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1386	2
TOTAL																				11385	3
PCT	8.8	26.7	32.7	18.9	7.9	3.3	1.1	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1895-1976
(OVER-ALL) 1860-1976

TABLE 20

AREA 0014 LUANDA NW
5.95 8.6E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
89/90	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	17	.1
87/88	.2	.4	1.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	65	.3
85/86	1.4	5.0	11.8	9.1	1.2	.0	*	.0	.0	.0	.1	.4	596	2.5
83/84	8.2	25.4	33.1	30.5	9.3	.2	*	.1	.0	.3	1.2	1.2	2220	9.3
81/82	41.1	46.0	39.4	41.7	31.7	2.9	.2	.2	.1	4.4	10.6	20.6	4813	20.1
79/80	28.6	16.4	10.1	11.5	24.8	7.0	.9	.3	1.1	13.3	26.5	34.4	3518	14.7
77/78	13.3	4.1	2.1	4.4	17.9	17.5	3.5	1.7	4.4	24.8	30.1	26.7	3012	12.6
75/76	4.7	1.6	.6	1.0	9.5	24.0	10.9	4.0	17.1	27.3	17.4	11.2	2648	11.1
73/74	1.8	.6	.1	.5	3.8	25.0	24.2	22.0	36.7	18.2	10.0	3.8	2884	12.0
71/72	.4	.4	.4	.1	.9	11.7	28.1	31.5	24.3	8.6	3.6	1.3	2180	9.1
69/70	.2	.1	.0	.1	.4	6.4	17.4	22.5	11.4	2.4	.5	.3	1201	5.0
67/68	.1	.0	.0	.1	.2	2.9	9.9	9.8	3.7	.8	.2	*	546	2.3
65/66	.1	.0	.0	.0	.1	.4	3.6	3.8	1.0	.1	.0	.0	178	.7
63/64	.0	.0	.0	.0	.1	.2	.9	1.8	.3	.0	.0	.0	65	.3
61/62	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	7	*
59/60	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	2	*
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1980	1902	2209	1931	2108	1855	2134	1811	1949	2109	1909	2057	23954	100.0
MEAN	80.1	81.6	82.4	82.1	79.4	74.6	71.6	71.1	72.7	75.8	77.4	78.5	77.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1011	1012	1011	1009	1010	1011	1011	1488
FEB	1011	1009	1011	1011	1011	1008	1009	1010	1010	1499
MAR	1010	1009	1010	1011	1010	1007	1009	1010	1010	1604
APR	1011	1009	1011	1012	1011	1009	1010	1010	1010	1439
MAY	1012	1012	1012	1013	1012	1011	1011	1012	1012	1491
JUN	1014	1013	1014	1015	1015	1013	1014	1015	1014	1360
JUL	1016	1015	1016	1017	1016	1014	1015	1016	1016	1669
AUG	1016	1015	1016	1016	1015	1013	1014	1016	1015	1523
SEP	1014	1014	1014	1015	1014	1012	1013	1015	1014	1381
OCT	1013	1012	1013	1014	1013	1011	1012	1013	1013	1729
NOV	1012	1011	1012	1013	1012	1010	1011	1012	1012	1550
DEC	1012	1011	1012	1012	1012	1010	1010	1011	1011	1437
ANN	1013	1012	1013	1013	1013	1011	1012	1013	1012	18170
OBS	3940	947	3781	463	4084	916	3565	474		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1002	1004	1007	1009	1011	1012	1014	1015	1018
FEB	1000	1002	1006	1009	1010	1012	1015	1017	1019
MAR	1000	1003	1006	1009	1010	1011	1013	1016	1019
APR	1000	1003	1007	1009	1011	1012	1014	1016	1020
MAY	1002	1006	1009	1011	1012	1013	1015	1016	1018
JUN	1006	1008	1010	1013	1014	1016	1018	1019	1020
JUL	1005	1009	1012	1014	1016	1017	1019	1020	1022
AUG	1005	1010	1012	1014	1015	1016	1018	1020	1023
SEP	1007	1009	1011	1013	1014	1015	1017	1018	1021
OCT	1003	1006	1009	1011	1013	1014	1015	1017	1020
NOV	1003	1006	1008	1010	1012	1013	1015	1016	1019
DEC	1004	1005	1008	1010	1011	1013	1014	1016	1019

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1893-1976

JANUARY

AREA 0015 LOBITO
13.75 8.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	87.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	.0	.0	.0	92.2
SE	.3	.3	1.1	.0	.0	.0	.0	1.7	2.5	.0	.3	.0	.0	.0	95.5
S	.5	.6	.7	.0	.0	.0	.0	1.7	.7	.0	.6	.0	.3	.2	96.6
SW	.6	.1	.6	.0	.0	.0	.0	.7	.7	.6	1.3	.0	.6	.0	96.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	98.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	97.6
TOT PCT	.5	.4	.7	.0	.0	.0	.0	1.5	1.1	.1	.6	.0	.3	.1	96.3
TOT OBS:	1317														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00Z03	.6	.9	.9	.0	.0	.0	.0	2.0	1.4	.3	.9	.0	.0	.3	95.1
06Z09	1.1	.6	.3	.0	.0	.0	.0	2.0	1.7	.0	.6	.0	.6	.0	95.1
12Z15	.3	.0	.6	.0	.0	.0	.0	.9	.6	.0	.6	.0	.3	.0	97.7
18Z21	.0	.0	.9	.0	.0	.0	.0	.9	.9	.0	.3	.0	.3	.0	97.5
TOT PCT TOT OBS:	.5 1363	.4	.7	.0	.0	.0	.0	1.5	1.2	.1	.6	.0	.3	.1	96.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.2	.4	*	.0	.0	.0	.0	.7	5.1	1.0	.3	.5	.0	.8	1.2	.6	.0
NE	.3	.5	.1	.0	.0	.0	.0	.9	5.6	.2	1.4	1.3	.0	1.6	1.8	.3	.0
E	.3	.8	*	.0	.0	.0	.0	1.2	5.0	.6	1.9	1.8	1.9	1.1	.6	.8	2.2
SE	1.3	13.9	9.6	.6	.0	.0	.0	25.4	10.2	22.3	22.8	24.3	37.0	28.5	28.3	19.6	35.9
S	2.4	28.6	13.3	.4	.0	.0	.0	44.6	9.3	47.4	39.7	47.7	43.3	43.4	36.0	46.0	46.0
SW	1.4	12.1	2.2	*	.0	.0	.0	15.7	7.5	16.4	22.1	13.2	11.3	12.9	18.2	20.0	8.9
W	.6	2.9	.4	.0	.0	.0	.0	3.9	6.5	5.3	5.2	1.3	.0	3.3	4.5	6.0	3.0
NW	.3	1.9	.1	.0	.0	.0	.0	2.3	5.5	1.5	3.3	1.3	.9	2.0	5.4	3.5	2.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4						.0	5.4	.0	5.3	3.3	8.7	5.6	6.5	4.2	3.1	2.0
TOT OBS	268	1350	570	22	0	0	2210		8.4	457	182	380	108	461	168	333	101
TOT PCT	12.1	61.1	25.8	1.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.5	.2	.0	.0	.0	.7	5.1	.8	.4	.9	.5
NE	.7	.2	.0	.0	.0	.9	5.6	.5	1.0	1.7	.2
E	1.0	.2	.0	.0	.0	1.2	5.0	1.0	1.8	1.0	1.1
SE	5.4	17.6	2.3	.*	.0	25.4	10.2	22.5	27.2	28.4	23.2
S	12.5	29.4	2.7	.*	.0	44.6	9.3	45.2	46.7	41.4	46.0
SW	7.1	8.3	.3	.0	.0	15.7	7.5	18.0	12.8	14.3	17.5
W	2.3	1.5	.*	.0	.0	3.9	6.5	5.3	1.0	3.6	5.3
NW	1.8	.5	.0	.0	.0	2.3	5.5	2.0	1.2	2.9	3.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4					5.4	.0	4.7	8.0	5.9	2.9
TOT OBS	812	1280	117	1	0	2210		639	488	629	454
TOT PCT	36.7	57.9	5.3	.*	.0	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1893-1976

JANUARY

AREA 0015 LOBITO
13.75 8.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	4.7	6.6	59.5	27.9	1.4	.0	.0	8.7	100.0	639
0600	8.0	5.3	59.2	26.6	.8	.0	.0	8.3	100.0	488
1200	5.9	8.1	63.4	22.1	.5	.0	.0	8.0	100.0	629
1800	2.9	6.6	62.1	27.1	1.3	.0	.0	8.9	100.0	454
TOT	119	149	1350	570	22	0	0	8.4	100.0	2210
PCT	5.4	6.7	61.1	25.8	1.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.1	.2	.0		4.6
NE	.0	.0	.3	.2		6.6
E	.1	.1	.3	.3		5.8
SE	2.4	3.7	9.4	9.4		6.0
S	7.9	7.6	19.7	15.0		5.5
SW	1.9	2.8	5.0	3.6		5.3
W	1.1	.5	.8	.6		4.1
NW	.1	.2	.3	.3		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.0	2.3	1.4		4.8
TOT OBS	169	181	433	349	1132	5.5
TOT PCT	14.9	16.0	38.3	30.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY MGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	
.0	.0	.0	.1	.0	.3	.0	.0	.0	.0	.1	
.1	.0	.0	.1	.2	.1	.0	.1	.0	.0	.3	
.0	.0	.1	1.4	8.3	4.6	1.2	.2	.3	.3	8.6	
.1	.0	.1	3.3	11.0	10.0	2.2	.9	.4	.5	21.9	
.0	.1	.2	.6	1.8	2.8	.7	.0	.0	.0	2.1	
.0	.0	.0	.1	.3	.4	.2	.0	.0	.0	.4	
.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.2	.2	.2	1.5	.6	.0	.2	.2	3.0	
.2	.1	.7	.66	250	222	55	14	9	13	493	1132
.2	.1	.6	5.8	22.1	19.6	4.9	1.2	.8	1.1	43.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >5000	2.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >3500	7.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3
= OR >2000	23.0	26.7	27.9	27.9	27.9	27.9	27.9	27.9
= OR >1000	43.3	48.5	49.8	49.8	49.8	49.8	49.8	49.8
= OR >600	47.8	54.1	55.5	55.5	55.5	55.5	55.5	55.5
= OR >300	48.0	54.3	56.1	56.1	56.1	56.1	56.1	56.1
= OR >150	48.0	54.3	56.1	56.1	56.1	56.1	56.1	56.1
= OR >0	48.0	54.4	56.1	56.2	56.2	56.3	56.3	56.3
TOTAL	558	633	653	654	654	655	655	655

TOTAL NUMBER OF OBS: 1163

PCT FREQ NH <5/8: 43.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.6	6.8	9.6	8.1	8.5	6.4	10.5	13.5	27.1	.1	1292

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1893-1976

JANUARY

TABLE 8

AREA 0015 LOBITO
13.75 8.5E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
2<5	PCP	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.0	.1	1.1	.7	.2	.1	.0	.5	2.7	2.7
	TOT %	.0	.0	.0	.2	1.4	.7	.2	.1	.0	.5	3.1	3.1
5<10	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.1	.4	.4
	NO PCP	.0	.2	.3	1.8	5.5	1.7	.2	.2	.0	1.2	11.0	11.0
	TOT %	.0	.2	.3	1.9	5.6	1.7	.2	.2	.0	1.3	11.3	11.3
10+	PCP	.1	.0	.0	.2	.4	*	.0	*	.0	.0	.7	.7
	NO PCP	.3	.5	.7	23.1	41.5	10.6	.8	.0	.0	4.5	84.6	84.6
	TOT %	.4	.5	.7	23.2	41.9	10.7	.8	.0	.0	4.5	85.3	85.3
TOT OBS													1313
TOT PCT		.4	.6	1.0	25.4	49.0	13.2	3.1	1.1	.0	6.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.5	.5	.5
	4-10	.0	.0	.0	.1	.6	.6	.2	.1	.0	.0	1.5	1.5
	11-21	.0	.0	.0	.1	.6	.1	.0	.0	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	1.3	.7	.2	.1	.0	.5	2.9	2.9
5<10	0-3	.0	.0	.1	*	.2	.2	.1	.1	.0	1.1	1.7	1.7
	4-10	.0	.1	.2	1.2	4.0	1.1	.2	.1	.0	.0	6.8	6.8
	11-21	.0	.0	.0	.7	1.5	.2	.0	.0	.0	.0	2.5	2.5
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.1	.3	2.1	5.8	1.5	.2	.1	.0	1.1	11.3	11.3
10+	0-3	.0	.1	.2	1.3	2.2	1.0	.3	*	.0	4.2	9.2	9.2
	4-10	.3	.2	.6	13.5	26.0	8.2	1.9	.6	.0	.0	51.2	51.2
	11-21	.1	.1	.0	10.2	12.6	1.0	.3	.1	.0	.0	24.3	24.3
	22+	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0	.9	.9
	TOT %	.4	.4	.8	25.4	41.0	10.1	2.5	.7	.0	4.2	85.6	85.6
TOT OBS													1486
TOT PCT		.4	.5	1.0	27.8	48.2	12.4	2.9	.9	.0	5.9	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1893-1976

JANUARY

AREA 0015 LOBITO
13.75 8.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	.7	4.6	20.4	19.6	2.8	.7	.4	1.8	51.2	48.8	285
06009	.3	.3	.3	6.5	28.5	23.3	7.4	1.0	.3	.6	68.6	31.4	309
12015	.0	.0	.6	6.3	16.4	18.6	4.7	1.3	2.2	1.3	51.4	48.6	317
18021	.0	.0	.7	4.9	21.2	15.2	3.9	2.1	.4	1.4	49.8	50.2	283
TOT	2	1	7	67	258	230	57	15	10	15	662	532	1194
PCT	.2	.1	.6	5.6	21.6	19.3	4.8	1.3	.8	1.3	55.4	44.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	5.1	14.2	80.7	393
06009	.3	.0	.3	2.6	12.3	84.6	383
12015	.0	.2	.0	2.0	10.1	87.7	407
18021	.0	.0	.0	1.7	10.3	88.0	350
TOT	1	1	1	44	180	1306	1533
PCT	.1	.1	.1	2.9	11.7	85.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	1.1	12.0	44.5	43.4	274
06009	.3	1.0	10.2	59.7	30.0	303
12015	.0	.7	7.8	45.6	46.6	307
18021	.0	.7	6.8	43.4	49.8	279
TOT	2	10	107	564	492	1163
PCT	.2	.9	9.2	48.5	42.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
80/84	.0	.0	.0	.2	1.6	3.6	1.6	.2	67	7.4
75/79	.0	.0	.0	.2	4.7	13.5	9.7	3.7	290	31.8
70/74	.0	.0	.0	.1	5.3	25.2	14.5	4.3	450	49.4
65/69	.0	.0	.0	.0	.1	2.1	4.9	2.2	85	9.3
60/64	.0	.0	.0	.0	.0	.0	1.2	.8	18	2.0
TOTAL	0	0	0	5	108	405	291	102	911	100.0
PCT	.0	.0	.0	.5	11.9	44.5	31.9	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.1	.1	.1	1.2	2.8	1.4	.6	.4	.0	.7
.4	.1	.4	6.1	13.8	7.0	1.4	.1	.0	2.4
.0	.1	.4	18.5	24.8	3.5	1.1	.3	.0	.8
.0	.0	.0	1.4	6.1	1.2	.1	.0	.0	.5
.0	.0	.0	.0	1.3	.3	.1	.0	.0	.2
.5	.3	1.0	27.3	48.8	13.3	3.3	.8	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	81	78	72	65	63	59	72.0	642
06009	82	80	78	73	64	62	61	72.5	489
12015	90	86	82	75	69	65	62	75.4	631
18021	86	83	81	73	66	64	63	73.3	461
TOT	90	84	81	73	66	63	59	73.3	2223

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	6.1	36.3	39.6	17.6	81	245
06009	.0	.4	10.2	41.2	36.3	11.8	79	245
12015	.0	.9	24.3	48.1	19.6	7.2	75	235
18021	.0	.5	6.9	52.1	33.6	6.9	79	217
TOT	0	5	112	416	305	104	79	942

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1893-1976

JANUARY

TABLE 17

AREA 0015 LOBITO
13.75 8.5E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.2	.1	3	.0	.2
14/16	.0	.0	.0	.0	.1	.2	.0	3	.0	.2
11/13	.0	.0	.0	.1	.3	.5	.0	11	.0	.9
9/10	.0	.0	.2	.3	.2	.1	.2	12	.0	1.0
7/8	.0	.1	.1	.3	.4	.5	.1	18	.0	1.5
6	.0	.0	.1	.3	.3	.2	.1	13	.0	1.1
5	.0	.1	.3	.4	.6	.6	.0	25	.0	2.0
4	.2	.2	.6	.8	1.6	.3	.1	48	.0	3.9
3	.2	.5	.2	1.1	.7	.2	.0	36	.1	2.8
2	.2	1.1	1.0	2.3	1.3	.3	.0	77	.2	6.1
1	.0	.1	1.6	2.9	1.6	.8	.0	87	.0	7.0
0	.8	1.1	3.6	4.9	2.7	.7	.0	170	.1	13.7
-1	.2	.4	5.5	6.3	2.9	.7	.0	199	.1	16.0
-2	1.3	1.0	4.3	7.4	3.2	.3	.0	215	.2	17.2
-3	.2	.5	2.8	3.9	2.4	.0	.0	122	.0	9.9
-4	.6	.6	1.6	2.5	1.5	.0	.0	84	.0	6.8
-5	.2	.6	1.8	1.6	.3	.1	.0	57	.0	4.6
-6	.1	.2	.6	.3	.0	.0	.0	16	.0	1.3
-7/-8	.2	.3	1.1	.6	.0	.0	.0	27	.0	2.2
-9/-10	.3	.2	.1	.2	.0	.0	.0	10	.1	.7
-11/-13	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	55	316	450	249	71	8	8	1236	.6	99.4
PCT	4.4	7.0	25.6	36.4	20.1	5.7	.6	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.3
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.5	.1	.3	.1	.0	.0	.0	.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.2	.0	.0	.0	.0	.3	.6	1.9	.1	.0	.0	.0	2.7
1-2	.0	.3	.0	.0	.0	.0	.3	.4	7.0	2.1	.0	.0	.0	9.5
3-4	.0	.0	.0	.0	.0	.0	.0	.1	3.0	5.5	.0	.0	.0	8.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.4	.1	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.*	.9	.4	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.0	.0	.0	.0	.6	1.1	12.6	11.2	.9	.0	.0	25.8

PERIOD: (OVER-ALL) 1963-1976

JANUARY
TABLE 18 (CONT)AREA 0015 LOBITO
13.75 8.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.2	5.3	.0	.0	.0	.0		6.6	.3	2.4	.1	.0	.0	.0		2.9
1-2	.8	17.9	3.6	.0	.0	.0		22.3	.5	6.7	.7	.0	.0	.0		7.9
3-4	.3	5.3	7.5	.1	.0	.0		13.2	.0	1.1	.6	.0	.0	.0		1.7
5-6	.0	.9	3.8	.0	.0	.0		4.7	.0	.2	.0	.0	.0	.0		.2
7	.0	.3	1.2	.1	.0	.0		1.6	.0	.0	.1	.0	.0	.0		.1
8-9	.0	.0	.3	.4	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.3	29.8	16.4	.6	.0	.0		49.1	.8	10.5	1.5	.0	.0	.0		12.8

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.7	.0	.0	.0	.0		.7	.0	.4	.0	.0	.0	.0		.4	
1-2	.1	.9	.2	.0	.0	.0		1.2	.0	.3	.1	.0	.0	.0		.4	
3-4	.0	.4	.2	.0	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.2	.4	.0	.0	.0		2.8	.0	.6	.1	.0	.0	.0		.7	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	11.2	.2	.0	.0	.0	22.5	
1-2	2.1	33.0	6.5	.0	.0	.0	41.5	
3-4	.3	9.6	13.5	.1	.0	.0	23.5	
5-6	.0	1.8	6.1	.1	.0	.0	7.9	
7	.0	.3	2.2	.5	.0	.0	3.0	
8-9	.0	.0	.4	.7	.0	.0	1.1	
10-11	.0	.0	.1	.1	.0	.0	.2	
12	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.6	55.9	28.9	1.6	.0	.0	100.0	958

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	11.3	8.3	4.9	3.6	.7	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	360	3
6-7	.0	1.4	5.8	6.3	2.7	1.5	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	204	5
8-9	.0	.4	3.0	2.3	2.0	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	5
10-11	.0	1.9	1.4	1.4	1.0	.7	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	5
12-13	.0	.0	1.3	1.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	5
>13	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
INDET	6.1	9.2	8.2	4.3	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	341	3
TOTAL	100	273	316	236	125	57	12	3	1	5	0	0	0	0	0	0	0	0	0	1128	4
PCT	8.9	24.2	28.0	20.9	11.1	5.1	1.1	.3	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1896-1976

FEBRUARY

AREA 0015 LORITO
19.85 8.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	16.0	.0	.0	.0	.0	16.0	.0	.0	.0	.0	.0	.0	84.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.6	.3	.1	.0	.0	.0	.0	1.0	2.9	.4	.3	.0	.0	.0	95.7
S	.5	.3	.5	.0	.0	.0	.0	1.3	.8	.3	.4	.0	.3	.0	97.0
SW	.0	.2	.7	.0	.0	.0	.0	1.0	.5	.0	.5	.0	.1	.0	97.9
W	.0	.0	.0	.0	.0	.0	.0	.0	2.9	2.9	.0	.0	.0	.0	94.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	.0	.0	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	.0	1.4	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	95.8
TOT PCT	.6	.2	.6	.0	.0	.0	.0	1.4	1.4	.3	.4	.0	.2	.0	96.5
TOT OBS:	1247														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.0	.3	.7	.0	.0	.0	.0	2.0	1.0	1.0	.7	.0	.0	.0	95.6
06009	.9	.3	1.2	.0	.0	.0	.0	2.4	2.7	.0	.3	.0	.3	.0	94.3
12015	.3	.0	.9	.0	.0	.0	.0	1.2	1.5	.0	.3	.0	.3	.0	96.8
18021	.0	.3	.0	.0	.0	.0	.0	.3	.0	.3	.7	.0	.0	.0	98.7
TOT PCT	.5	.2	.7	.0	.0	.0	.0	1.5	1.3	.3	.5	.0	.2	.0	96.3
TOT OBS:	1277														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	.4	.0	.0	.0	.0	.7	4.4	.8	.0	.4	.0	1.3	1.3	.3	.6		
NE	.1	.1	.0	.0	.0	.0	.2	7.6	.0	.0	.7	.0	.2	.0	.0	.0		
E	.1	.2	.0	.0	.0	.0	.3	5.4	.0	.0	.5	.6	.8	.0	.1	.0		
SE	1.0	14.9	12.7	.3	.0	.0	28.9	10.6	26.5	29.1	27.2	44.8	31.1	29.4	22.4	45.8		
S	2.6	27.1	12.9	.2	.0	.0	42.8	9.3	43.6	43.9	48.0	41.4	39.2	39.6	43.1	39.7		
SW	2.4	11.1	3.8	.1	.0	.0	17.4	7.9	18.9	19.1	16.7	7.5	16.3	18.0	22.7	5.0		
W	.5	2.5	.5	.0	.0	.0	3.5	6.9	3.7	3.3	1.2	2.9	2.3	7.6	5.5	5.0		
NW	.3	1.5	.1	.0	.0	.0	1.9	5.7	2.2	2.6	.7	2.9	1.8	2.8	2.3	1.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.1						4.1	.0	4.3	2.0	4.7	.0	6.9	1.3	3.5	2.2		
TOT OBS	235	1197	626	15	0	0	2073		416	152	383	87	448	154	343	90		
TOT PCT	11.3	57.7	30.2	.7	0	0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.6	.1	.0	.0	.0		.7	4.4	.6	.3	1.3	.3	
NE	.1	.1	.0	.0	.0		.2	7.6	.0	.6	.2	.0	
E	.2	.1	.0	.0	.0		.3	5.4	.0	.5	.6	.1	
SE	6.0	19.8	3.2	.0	.0		28.9	10.6	27.2	30.4	30.6	27.3	
S	12.3	27.5	3.0	.0	.0		42.8	9.3	43.7	46.8	39.3	42.4	
SW	8.0	8.9	.5	.0	.0		17.4	7.9	18.9	15.0	16.7	19.1	
W	2.0	1.4	.1	.0	.0		3.5	6.9	3.6	1.5	3.7	5.4	
NW	1.5	.4	.0	.0	.0		1.9	5.7	2.3	1.1	2.1	2.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.1						4.1	.0	3.7	3.8	5.5	1.2	
TOT OBS	721	1209	143	0	0	2073		8.8	568	470	602	433	
TOT PCT	34.8	58.3	6.9	.0	.0		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1926-1976
(COVER-ALL) 1896-1976

AREA 0015 LOBITO
13.85 8.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	0-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.7	5.8	59.3	30.3	.9	.0	.0	9.1 100.0	568
06009	3.8	6.0	60.9	28.5	.9	.0	.0	8.7 100.0	470
12015	5.5	10.1	53.5	30.6	.3	.0	.0	8.6 100.0	602
18021	3.2	6.2	58.2	31.4	.9	.0	.0	9.0 100.0	433
TOT	86	149	1197	626	15	0	8.8		2073
PCT	4.1	7.2	57.7	30.2	.7	.0	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.3	.3		7.4
NE	.0	.1	.0	.1		4.8
E	.0	.2	.0	.1		4.5
SE	3.3	6.0	12.6	9.3		5.7
S	6.1	7.6	18.1	11.3		5.5
SW	2.5	4.9	5.7	2.3		4.8
W	.5	.3	1.4	.4		4.8
NW	.1	.2	.2	.2		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	.7	2.0	1.3		4.6
TOT OBS	155	216	436	273	1080	5.4
TOT PCT	14.4	20.0	40.4	25.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.1	.0	.2	.1	.0	.0	.0	.0	.0	.2	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
.0	.0	.5	2.8	7.5	5.1	2.7	.2	.1	.1	12.2	
.3	.0	.5	3.5	8.4	7.0	2.8	.3	.3	.5	19.5	
.0	.0	.1	.4	2.2	1.9	.8	*	*	.1	9.7	
.0	.0	.0	.1	.3	.3	.3	.1	.1	.0	1.7	
.0	.0	.0	.1	.1	.2	.0	.0	*	.0	.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.5	.9	.8	.2	.1	.0	3.1	
.4	1	12	78	208	166	81	9	6	8	507	1080
.4	.1	1.1	7.2	19.3	15.4	7.5	.8	.6	.7	46.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	8.2	9.5	9.6	9.6	9.6	9.6	9.6	9.6
= OR >2000	21.5	24.6	24.8	24.8	24.8	24.8	24.8	24.8
= OR >1000	38.8	43.4	44.0	44.0	44.0	44.0	44.0	44.0
= OR >600	45.0	50.6	51.2	51.2	51.2	51.2	51.2	51.2
= OR >300	45.9	51.9	52.5	52.5	52.5	52.5	52.5	52.5
= OR >150	45.9	52.0	52.6	52.6	52.6	52.6	52.6	52.6
= OR >0	46.0	52.4	52.9	52.9	52.9	52.9	52.9	52.9
TOTAL	503	573	579	579	579	579	579	579

TOTAL NUMBER OF OBS: 1094

PCT FREQ NH <5/8: 47.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
5.5	7.6	11.2	11.6	9.5	8.0	11.1	13.2	22.0	.3 1179

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1896-1976

FEBRUARY

AREA 0015 LOBITO
13.85 8.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.1	.3	.0	.1	.0	.0	.2	.8	.8
	TOT %	.0	.0	.0	.1	.3	.1	.1	.0	.0	.2	.9	.9
5<10	PCP	.1	.0	.0	.3	.1	.0	.0	.0	.0	.2	.6	.6
	NO PCP	.1	.0	.0	2.1	5.1	1.8	.3	.1	.0	.7	10.1	10.1
	TOT %	.1	.0	.0	2.2	5.4	1.9	.3	.1	.0	.9	10.8	10.8
10+	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.1	.6	.6
	NO PCP	.4	.1	.2	26.7	38.6	14.2	2.3	.6	.0	4.5	87.6	87.6
	TOT %	.4	.1	.2	27.0	38.9	14.2	2.3	.6	.0	4.6	88.2	88.2
TOT OBS		1242											
TOT PCT		.5	.1	.2	29.2	44.7	16.1	2.8	.7	.0	5.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	.4	.4
	4-10	.0	.0	.0	.1	.4	.1	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.5	.1	.1	.0	.0	.2	1.1	1.1
5<10	0-3	.1	.0	.0	.0	.1	.4	.0	.0	.0	.8	1.3	1.3
	4-10	.0	.0	.0	1.3	3.6	1.0	.1	.0	.0	.0	6.0	6.0
	11-21	.0	.0	.0	1.0	1.5	.5	.2	.0	.0	.0	3.2	3.2
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.0	.0	2.3	5.2	1.8	.3	.1	.0	.8	10.6	10.6
10+	0-3	.1	.0	.1	.9	2.1	1.9	.4	.1	.0	4.1	9.7	9.7
	4-10	.3	.1	.2	16.0	25.2	8.2	1.6	.4	.0	.0	51.8	51.8
	11-21	.0	.0	.0	11.9	10.5	3.3	.2	.0	.0	.0	26.0	26.0
	22+	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.6	.6
	TOT %	.3	.1	.2	29.1	38.0	13.6	2.2	.5	.0	4.1	88.2	88.2
TOT OBS		1422											
TOT PCT		.4	.1	.2	31.5	43.8	15.5	2.6	.6	.0	5.1	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1896-1976

FEBRUARY

TABLE 10

AREA 0015 LOBITO
13.85 8.4E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.9	.4	2.1	6.0	18.4	14.5	9.0	.0	.4	.4	52.1	47.9	234
06009	.3	.0	2.3	9.2	24.9	18.4	8.2	.3	1.0	.0	64.6	35.4	305
12015	.0	.0	.0	7.2	15.1	11.8	5.6	1.6	.7	2.0	44.1	55.9	304
18021	.4	.0	.7	5.4	16.8	15.4	7.5	1.1	.0	.4	47.7	52.3	279
TOT	4	1	14	79	212	169	84	9	6	8	586	536	1122
PCT	.4	.1	1.2	7.0	18.9	15.1	7.5	.8	.5	.7	52.2	47.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.3	.0	.0	2.0	13.4	84.3	351
06009	.3	.0	.0	1.9	13.4	84.5	373
12015	.0	.0	.0	.0	8.9	91.1	395
18021	.0	.0	.0	.3	7.8	91.9	334
TOT	2	0	0	15	158	1278	1453
PCT	.1	.0	.0	1.0	10.9	88.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.9	3.6	12.3	43.2	44.5	220
06009	.3	3.0	13.6	51.8	34.6	301
12015	.0	.0	7.3	36.8	56.0	302
18021	.4	1.1	6.6	41.7	51.7	271
TOT	4	20	108	475	511	1094
PCT	.4	1.8	9.9	43.4	46.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	.1	.0	.0	.0	.0	2	.2
85/89	.0	.0	.1	.1	.3	.3	.2	.1	11	1.3
80/84	.0	.0	.1	.3	2.5	6.2	3.7	1.2	122	14.1
75/79	.0	.0	.0	1.3	5.9	20.5	12.6	3.5	378	43.7
70/74	.0	.0	.0	.5	3.7	15.1	13.9	3.6	318	36.8
65/69	.0	.0	.0	.0	.0	.6	2.2	1.0	33	3.8
60/64	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	3	20	108	370	283	81	865	100.0
PCT	.0	.0	.3	2.3	12.5	42.8	32.7	9.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.2	.1	.0	.0	.0	.0
85/89	.0	.0	.0	.4	.5	.1	.0	.0	.2
80/84	.3	.0	.2	1.7	5.6	4.1	1.0	.2	1.0
75/79	.2	.1	.1	12.9	20.8	6.9	1.1	.3	1.3
70/74	.1	.0	.0	15.7	17.0	3.4	.1	.1	.3
65/69	.1	.0	.0	.4	1.9	.6	.0	.1	.8
60/64	.0	.0	.0	.0	.0	.1	.1	.1	.0
TOTAL	.7	.1	.3	31.3	45.8	15.1	2.2	.8	3.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	90	82	80	74	68	63	59	74.2	571
06009	91	83	80	74	67	60	57	73.8	471
12015	91	88	85	77	70	66	61	77.2	603
18021	87	84	82	75	68	64	61	75.3	427
TOT	91	86	82	75	68	64	57	75.2	2072

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	.9	5.7	47.6	35.8	9.9	79	212
06009	.0	1.8	7.5	37.0	39.6	14.1	80	227
12015	.0	4.7	24.2	47.9	16.1	7.2	74	236
18021	.0	2.9	11.0	39.7	39.2	7.2	78	209
TOT	0	23	109	381	286	85	78	884

FEBRUARY

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1896-1976

TABLE 17

AREA 0015 LOBITO
13.85 8.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
14/16	.0	.0	.0	.0	.0	.2	.2	.1		5	.0	.4
11/13	.0	.0	.0	.0	.0	.3	.3	.5		16	.0	1.4
9/10	.0	.0	.0	.0	.0	.3	.4	.1		10	.0	.9
7/8	.0	.0	.0	.0	.0	.3	.6	.4		16	.1	1.3
6	.0	.0	.0	.1	.1	.3	.3	.0		9	.0	.8
5	.0	.0	.0	.4	.7	1.1	.3	.2		32	.0	2.7
4	.0	.0	.0	.7	.1	.9	1.2	.1		28	.0	2.4
3	.0	.0	.0	.7	1.0	.8	.8	.1		33	.0	2.8
2	.0	.0	.5	.7	1.1	2.4	1.0	.2		72	.0	6.1
1	.0	.0	.0	.7	3.5	2.6	.9	.0		90	.0	7.7
0	.0	.2	.9	2.0	7.0	4.2	1.3	.1		182	.3	15.2
-1	.0	.0	.4	1.7	7.4	4.0	.9	.0		169	.0	14.4
-2	.0	.0	.8	3.2	8.1	4.4	1.3	.0		209	.0	17.8
-3	.0	.0	.4	1.6	5.4	2.0	.5	.0		116	.0	9.9
-4	.1	.3	.6	1.4	2.6	1.8	.4	.0		85	.0	7.2
-5	.1	.1	.3	.5	1.6	.7	.0	.0		39	.1	3.2
-6	.0	.0	.2	.6	.8	.5	.0	.0		24	.0	2.0
-7/-8	.1	.0	.6	1.0	.7	.4	.0	.0		33	.1	2.7
-9/-10	.0	.0	.0	.2	.1	.0	.0	.0		3	.0	.3
-11/-13	.0	.1	.1	.2	.0	.0	.0	.0		4	.0	.3
TOTAL	3	7	56	175	471	315	122	22	5	1176	6	1170
PCT	.3	.6	4.8	14.9	40.1	26.8	10.4	1.9	.4	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.2

HGT	E							SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.6	1.8	.1	.0	.0	.0	2.5	.0
1-2	.1	.0	.0	.0	.0	.0	.1	.2	9.5	2.1	.0	.0	.0	11.8	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.6	.0	.0	.0	9.4	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.0	.2	.0	.0	5.8	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	*	.0	.0	.7	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.0	.0	.1	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.0	.0	.0	.0	.0	.1	.8	15.8	13.4	.4	.0	.0	30.4	.0

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

TABLE 18 (CONT)

AREA 0015 LDB:TD
13.85 8.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	1.0	4.5	.2	.0	.0	.0	5.7	1.2	2.8	.6	.0	.0	.0	4.6	
1-2	.7	17.5	2.8	.0	.0	.0	21.0	.7	5.3	1.2	.0	.0	.0	7.3	
3-4	.0	5.5	4.9	.0	.0	.0	10.4	.3	1.4	.7	.1	.0	.0	2.5	
5-6	.0	.7	2.7	.0	.0	.0	3.4	.0	.2	1.0	.0	.0	.0	1.1	
7	.0	.3	1.0	.3	.0	.0	1.5	.0	.0	.2	.2	.0	.0	.4	
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	28.5	11.7	.5	.0	.0	42.4	2.3	9.7	3.8	.3	.0	.0	16.1	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.3	.3	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	.5	
1-2	.1	1.1	.0	.0	.0	.0	1.1	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.1	.2	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.5	.2	.0	.0	.0	2.0	.2	.4	.1	.0	.0	.0	.7	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	9.6	.9	.0	.0	.0	21.7	
1-2	2.4	33.6	6.2	.0	.0	.0	42.2	
3-4	.4	9.8	12.3	.1	.0	.0	22.6	
5-6	.0	2.4	7.6	.2	.0	.0	10.2	
7	.0	.4	1.7	.4	.0	.0	2.6	
8-9	.0	.1	.1	.1	.0	.0	.3	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.1	55.9	28.9	1.1	.0	.0	100.0	889

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	11.4	8.1	3.7	1.0	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	282	3
6-7	.1	1.3	7.0	7.6	4.3	1.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	5
8-9	.0	.7	4.1	3.8	3.1	1.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	5
10-11	.0	.9	1.5	3.0	1.0	.4	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	5
12-13	.0	.0	1.3	.3	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
>13	.0	.0	.0	.5	.7	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
INDET	9.4	2.6	8.0	3.1	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	250	2
TOTAL	125	174	312	228	125	47	23	1	4	0	0	0	0	0	0	0	0	0	0	1039	4
PCT	12.0	16.7	30.0	21.9	12.0	4.5	2.2	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1884-1976

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	9.3	.0	.0	.0	.0	.0	.0	9.3	.0	9.3	.0	.0	.0	.0	90.7
SE	.3	.3	.9	.0	.0	.0	.0	1.5	1.0	.0	.3	.0	.0	.0	97.3
S	.8	.0	1.1	.0	.0	.0	.0	1.5	2.2	1.3	.3	.0	.0	.0	94.7
SW	1.2	1.2	1.3	.0	.0	.0	.0	3.6	4.2	3.9	.7	.0	.0	.0	87.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	97.2
NW	.0	12.9	.0	.0	.0	.0	.0	12.9	12.9	.0	.0	.0	.0	.0	74.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	97.2
TOT PCT	.7	.3	1.0	.0	.0	.0	.0	1.9	2.1	1.3	.3	.0	.0	.0	94.5
TOT OBS:	1236														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	1.0	.3	1.3	.0	.0	.0	.0	2.6	2.3	2.6	.3	.0	.0	.0	92.3
06009	.6	.6	1.2	.0	.0	.0	.0	2.4	3.3	.6	.6	.0	.0	.0	93.0
12015	.0	.0	.3	.0	.0	.0	.0	.3	1.6	.0	.3	.0	.0	.0	97.8
18021	1.3	.3	1.3	.0	.0	.0	.0	2.3	1.3	2.0	.0	.0	.0	.0	94.6
TOT PCT	.7	.3	1.0	.0	.0	.0	.0	1.9	2.1	1.3	.3	.0	.0	.0	94.5
TOT OBS:	1262														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.4	.1	.0	.0	.0		.7	5.7		.3	.3	.7	.9	.7	1.1	1.2	.0
NE	.2	.1	.2	.0	.0	.0		.3	5.3		.3	.3	.3	.2	.2	.8	.4	.0
E	.0	.6	.2	.0	.0	.0		.8	8.6		.1	.8	1.1	2.1	1.4	.0	.7	.0
SE	.9	14.6	12.9	.6	*	.0		29.1	10.8		27.0	25.4	25.8	39.0	33.6	28.6	24.9	43.0
S	1.7	25.7	16.0	.6	.0	.0		44.0	9.9		45.8	45.9	50.5	45.4	42.0	35.8	42.2	37.3
SW	1.0	12.0	3.5	.3	.0	.0		16.8	8.6		17.3	19.0	14.8	10.1	15.5	20.1	20.0	13.0
W	.7	3.2	.4	.0	.0	.0		4.3	6.1		4.3	4.9	2.4	1.8	2.8	8.2	6.3	5.8
NW	.4	1.1	.1	.0	.0	.0		1.6	5.9		2.2	2.1	.5	.5	1.3	3.4	2.1	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		2.5	1.5	3.9	.0	2.5	2.1	2.3	.0
TOT OBS	164	1271	730	33	1	0	2199		9.4		433	195	380	109	436	190	352	104
TOT PCT	7.5	57.8	33.2	1.5	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.5	.1	*	.0	.0	.7	5.7		.3	.7	.8	.9	
NE	.2	.1	.0	.0	.0	.3	5.3		.3	.3	.4	.3	
E	.3	.4	*	.0	.0	.8	8.6		.3	1.3	1.0	.5	
SE	5.4	20.2	3.4	.1	.0	29.1	10.8		26.5	28.7	32.1	29.0	
S	10.8	29.7	3.4	.1	.0	44.0	9.9		45.9	49.3	40.1	41.1	
SW	5.8	10.2	.7	*	.0	16.8	8.6		17.8	13.8	16.9	18.4	
W	2.8	1.5	.0	.0	.0	4.3	6.1		4.5	2.2	4.4	6.1	
NW	1.1	.6	.0	.0	.0	1.6	5.9		2.1	.5	1.9	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	2.4					2.4	.0		2.2	3.1	2.4	1.8	
TOT OBS	647	1382	166	4	0	2199		9.4	628	489	626	456	
TOT PCT	29.4	62.8	7.5	.2	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1984-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.2	4.8	56.4	34.7	1.9	.0	.0	.0	9.6	100.0	628
0600	3.1	3.1	59.7	32.7	1.4	.0	.0	.0	9.4	100.0	489
1200	2.4	6.9	57.5	32.4	.8	.0	.0	.0	9.1	100.0	626
1800	1.8	5.3	58.1	32.7	2.0	.2	.0	.0	9.6	100.0	456
TOT	52	112	1271	730	33	1	0	9.4			2199
PCT	2.4	5.1	57.8	33.2	1.5	*	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.2	.0	5.4	
NE	.0	.0	.1	.0	6.3	
E	.1	.2	.4	.2	5.4	
SE	3.5	4.6	12.0	11.8	5.9	
S	5.9	7.2	18.4	16.4	5.8	
SW	2.4	2.4	5.6	3.4	5.2	
W	.2	.4	.9	.3	5.4	
NW	.0	.0	.2	.2	7.2	
VAR	.0	.0	.0	.0	.0	
CALM	.7	.9	.8	.7	4.6	
TOT OBS	135	168	411	350	1064	5.7
TOT PCT	12.7	15.8	38.6	32.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.1	.1	.2	.0	.1	.0	.0	.5	
SE	.0	.0	.2	2.7	9.7	6.9	.6	.2	.3	.1	11.1	
S	.3	.0	.4	4.3	11.8	9.6	2.3	.4	.1	.7	18.1	
SW	.1	.0	.0	1.3	1.5	2.6	.4	.0	.0	.2	7.8	
W	.0	.0	.2	.2	.1	.1	.1	.0	.0	.0	1.2	
NW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.4	.2	.6	.0	.0	.0	1.9	
TOT OBS	4	0	8	92	251	209	43	8	4	10	435	1064
TOT PCT	.4	.0	.8	8.6	23.6	19.6	4.0	.8	.4	.9	40.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>OR >5000	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>OR >3500	4.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0
>OR >2000	21.0	25.7	25.7	25.8	25.8	25.8	25.8	25.8
>OR >1000	40.3	48.8	49.1	49.2	49.2	49.2	49.2	49.2
>OR >600	47.9	57.3	57.7	57.8	57.8	57.8	57.9	57.9
>OR >300	48.5	58.0	58.5	58.6	58.6	58.6	58.7	58.7
>OR >150	48.5	58.0	58.5	58.6	58.6	58.6	58.7	58.7
>OR >0	48.6	58.2	58.8	58.9	58.9	58.9	58.9	59.0
TOTAL	527	631	637	638	638	638	639	640

TOTAL NUMBER OF OBS: 1064

PCT FREQ NH <5/8: 41.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
3.8	6.4	9.6	9.8	10.6	8.1	9.6	12.7	29.2	.3	1162

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1884-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.6	
5<10	PCP	.0	.0	.0	.4	.4	.3	.0	.0	.0	.0	1.1	
	NO PCP	.2	.1	.2	3.3	6.4	2.2	.5	.2	.0	.6	13.8	
	TOT %	.2	.1	.2	3.7	6.8	2.5	.5	.2	.0	.6	14.9	
10+	PCP	.0	.0	.0	.1	.2	.2	.0	.1	.0	.0	.6	
	NO PCP	.2	*	.6	26.8	40.8	11.1	1.6	.4	.0	2.2	83.7	
	TOT %	.2	*	.6	26.8	41.1	11.2	1.6	.5	.0	2.2	84.3	
TOT OBS													1232
TOT PCT		.4	.1	.9	30.7	48.4	14.0	2.2	.6	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.4	.2	.0	.0	.0	.0	.6	
5<10	0-3	.0	.0	.0	.1	.1	.1	.1	.1	.0	.6	1.0	
	4-10	.1	.1	.1	1.9	4.4	1.5	.3	.0	.0	.8	8.4	
	11-21	.1	*	.1	2.1	2.6	.5	.1	.1	.0	.5	5.6	
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.2	4.1	7.3	2.2	.5	.1	.0	.6	15.1	
10+	0-3	.0	.0	.0	1.2	1.8	.8	.2	.1	.0	2.2	6.3	
	4-10	.2	*	.5	14.0	23.2	8.5	1.4	.3	.0	.0	48.1	
	11-21	.0	.0	.1	12.5	14.1	1.3	.1	*	.0	.0	28.2	
	22+	.0	.0	.0	.5	.5	.1	.0	.0	.0	.0	1.1	
	TOT %	.2	*	.6	28.2	39.6	10.7	1.8	.5	.0	2.2	83.8	
TOT OBS													1434
TOT PCT		.3	.1	.9	32.5	47.5	13.0	2.2	.6	.0	2.8	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1884-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.0	.4	8.0	24.4	16.4	2.7	1.1	.8	.0	54.6	45.4	262
06009	.3	.0	1.4	9.6	29.4	21.2	5.8	.0	.7	.7	68.9	31.1	293
12015	.4	.0	.4	6.8	17.9	20.4	2.5	1.1	.0	1.8	51.1	48.9	280
18021	.0	.0	.7	9.9	19.4	19.8	4.4	.7	.0	1.1	56.0	44.0	273
TOT	4	0	8	95	253	216	43	8	4	10	641	467	1108
PCT	.4	.0	.7	8.6	22.8	19.5	3.9	.7	.4	.9	57.9	42.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.0	.3	.8	14.9	83.5	370
06009	.0	.0	.3	.8	17.2	81.7	367
12015	.3	.0	.0	.3	17.3	87.2	382
18021	.3	.0	.0	1.2	16.1	82.5	342
TOT	4	0	2	11	220	1461	1461
PCT	.3	.0	.1	.8	15.1	83.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	1.2	10.7	46.4	42.9	252
06009	.3	1.7	11.5	58.9	29.6	287
12015	.4	1.1	8.0	44.2	47.8	276
18021	.0	1.1	11.9	45.0	43.1	269
TOT	4	14	114	529	441	1084
PCT	.4	1.3	10.5	48.8	40.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
85/89	.0	.0	.0	.1	.4	.4	.2	.0	11	1.2
80/84	.0	.0	.0	.2	2.2	8.7	7.3	1.5	183	20.0
75/79	.0	.0	.0	.3	3.9	16.5	18.9	2.7	388	42.3
70/74	.0	.0	.0	.1	2.0	12.1	16.0	3.4	308	33.6
65/69	.0	.0	.0	.0	.0	.3	1.0	.7	18	2.0
60/64	.0	.0	.0	.0	.0	.0	.1	.8	8	.9
TOTAL	0	0	0	7	78	349	400	83	917	100.0
PCT	.0	.0	.0	.8	8.5	38.1	43.6	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.3	.6	.4	.0	.0	.0	.0
80/84	.2	.4	.4	3.4	8.1	5.6	.9	.5	.0	.9
75/79	.0	.1	.2	13.7	20.7	5.6	1.0	.3	.0	.7
70/74	.0	.0	.1	14.3	16.6	2.0	.3	.0	.0	.2
65/69	.0	.0	.0	.4	1.2	.3	.1	.0	.0	.0
60/64	.0	.0	.1	.1	.6	.0	.0	.0	.0	.0
TOTAL	.2	.2	.8	32.2	47.9	13.9	2.3	.7	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	83	81	74	69	67	65	74.7	630
06009	85	83	81	75	68	64	62	74.9	486
12015	91	87	85	77	71	68	65	77.6	615
18021	87	84	82	76	70	64	63	76.2	461
TOT	91	85	82	76	70	66	62	75.9	2192

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	4.1	31.1	50.2	13.7	82	241
06009	.0	.0	5.7	35.6	45.3	13.4	81	247
12015	.0	2.2	18.5	46.1	31.0	2.2	76	232
18021	.0	.0	5.2	40.4	46.5	8.0	80	213
TOT	0	7	78	356	404	88	80	933

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1884-1976

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WG FOG
14/16	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.1	.1	4	.0	.3
9/10	.0	.0	.0	.2	.3	.2	.3	.2	12	.0	1.0
7/8	.0	.0	.1	.0	.3	.3	.3	.0	11	.0	.9
6	.0	.0	.0	.2	.0	.0	.0	.0	2	.0	.2
5	.0	.0	.1	.3	.3	.9	.0	.0	17	.0	1.5
4	.0	.0	.0	.3	.6	.4	.1	.0	16	.0	1.4
3	.0	.0	.2	.4	.7	.4	.2	.0	22	.0	1.9
2	.0	.1	.1	1.1	1.6	1.2	.2	.0	49	.0	4.2
1	.0	.0	.3	2.2	2.6	.9	.2	.0	73	.0	6.3
0	.2	.2	.8	5.0	4.7	2.8	.1	.0	159	.0	13.7
-1	.1	.1	1.8	10.4	4.8	3.2	.1	.0	238	.0	20.5
-2	.3	.3	2.1	6.4	3.3	2.0	.2	.0	168	.2	14.3
-3	.0	.1	2.2	4.5	3.9	.8	.0	.0	132	.0	11.4
-4	.0	.2	1.6	2.5	3.3	.7	.0	.0	96	.0	8.3
-5	.1	.1	1.3	2.5	2.0	.4	.0	.0	74	.0	6.4
-6	.0	.1	.7	.6	.5	.1	.0	.0	23	.0	2.0
-7/-8	.2	.1	.9	1.3	.4	.1	.0	.0	35	.0	3.0
-9/-10	.0	.3	.7	.5	.0	.0	.0	.0	17	.0	1.5
-11/-13	.0	.3	.3	.0	.0	.0	.0	.0	7	.0	.6
-14/-16	.0	.2	.1	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	9	23	153	445	339	170	18	3	1160	.2	1158
PCT	.8	2.0	13.2	38.4	29.2	14.7	1.6	.3	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.4	.9	.6	.0	.0	.0	1.8
1-2	.0	.5	.0	.0	.0	.0	.5	.6	9.8	3.0	.0	.0	.0	13.5
3-4	.0	.1	.2	.0	.0	.0	.3	.0	2.6	5.7	.0	.0	.0	8.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.3	.3	.0	.0	4.3
7	.0	.0	.0	.0	.0	.0	.0	.1	.1	1.2	.1	.0	.0	1.5
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.3	.0	.0	.0	.9	1.1	14.1	14.0	.4	.0	.0	29.7

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	4.1	.2	.0	.0	.0		4.9	.2	1.2	.0	.0	.0	.0		1.4
1-2	.4	16.7	5.7	.0	.0	.0		22.8	.2	6.6	1.1	.0	.0	.0		7.9
3-4	.4	6.8	6.6	.1	.0	.0		14.0	.4	2.9	1.0	.1	.0	.0		4.1
5-6	.0	1.2	3.9	.2	.0	.0		5.3	.0	.7	.1	.0	.0	.0		.8
7	.0	.3	.9	.2	.0	.0		1.4	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.6	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.2	.5	.1	.0	.0		.9	.0	.0	.0	.0	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.4	29.3	18.4	.6	.0	.0		49.9	.4	11.4	2.2	.3	.0	.0		14.2

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0		.4	.2	.1	.0	.0	.0	.0		.3
1-2	.1	.4	.1	.0	.0	.0		.6	.0	.1	.1	.0	.0	.0		.3
3-4	.0	.2	.1	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	1.0	.2	.0	.0	.0		1.3	.2	.3	.1	.0	.0	.0		96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	6.6	.8	.0	.0	.0	12.2	
1-2	1.8	34.3	9.9	.0	.0	.0	46.0	
3-4	.4	12.5	13.5	.2	.0	.0	26.6	
5-6	.0	2.6	7.3	.4	.0	.0	10.3	
7	.1	.4	2.0	.3	.0	.0	2.9	
8-9	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.2	.6	.2	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	56.7	34.9	1.2	.0	.0	100.0	891

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	13.3	9.9	6.1	1.9	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	365	3
6-7	.0	2.2	6.0	7.8	4.9	1.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	5
8-9	.0	.5	2.1	3.4	3.1	1.8	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	6
10-11	.0	1.0	1.3	.8	1.0	1.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	6
12-13	.0	.0	.2	.8	.5	.1	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
>13	.0	.0	.0	.2	.0	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
INDET	2.4	5.0	7.1	3.1	1.6	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	3
TOTAL	55	229	279	233	136	85	61	6	5	0	0	0	0	0	0	0	0	0	0	1049	4
PCT	5.2	21.8	26.5	22.2	13.0	6.2	3.9	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1895-1976

APRIL

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13.75 7.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	60.0
NE	20.0	20.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	.0	.0	.0	92.5
SE	.2	.5	.2	.0	.0	.0	.0	.9	.9	.2	.5	.0	.0	.0	97.5
S	.0	.3	.2	.0	.0	.0	.0	.5	.3	1.1	.5	.0	.7	.0	96.9
SW	1.5	.2	.0	.0	.0	.0	.0	1.6	.2	.9	2.2	.0	.7	.0	94.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	97.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	4.3	.0	.0	.0	91.3
TOT PCT	.3	.4	.2	.0	.0	.0	.0	.9	.6	.8	.8	.0	.4	.0	96.5
TOT OBS:	1222														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.3	.3	.3	.0	.0	.0	.0	1.0	.0	2.7	1.4	.0	.3	.3	94.2
06009	.6	.9	.3	.0	.0	.0	.0	1.8	1.2	.3	.9	.0	.3	.0	95.5
12015	.0	.3	.0	.0	.0	.0	.0	.3	.6	.0	.6	.0	.6	.0	97.9
18021	.4	.0	.0	.0	.0	.0	.0	.4	.4	.4	.4	.0	.4	.0	98.2
TOT PCT	.3	.4	.2	.0	.0	.0	.0	.9	.6	.8	.8	.0	.4	.1	96.5
TOT OBS:	1243														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18	21
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15			
N	.2	.2	*	.0	.0	.0	.4	5.0	.1	.6	.3	.0	1.3	.6	.0	.0		
NE	.1	.3	.0	.0	.0	.0	.4	4.6	.0	.6	1.0	.0	.4	.0	.3	.0		
E	.3	.6	.1	.0	.0	.0	1.0	6.5	1.1	1.4	.8	2.1	.9	.3	.6	1.6		
SE	.5	12.9	17.9	1.4	.1	.0	32.7	12.5	30.9	29.1	33.2	43.3	33.8	30.2	29.8	43.4		
S	.6	22.1	20.1	2.4	*	.0	45.3	11.7	43.1	46.0	46.9	47.9	44.5	44.8	45.0	49.7		
SW	.6	9.6	2.6	.3	.0	.0	13.0	8.6	16.9	15.3	11.8	4.8	12.1	13.5	14.7	3.7		
W	.7	3.6	.3	.0	.0	.0	4.6	6.6	5.0	5.1	3.0	1.9	3.8	8.7	6.1	1.6		
NW	.2	.5	*	.0	.0	.0	.8	5.7	1.0	.8	.5	.0	1.0	.8	.9	.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.9	1.1	2.3	.0	2.0	1.1	2.6	.0		
TOT OBS	106	1076	889	89	3	0	2163		429	177	383	105	455	178	341	95		
TOT PCT	4.9	49.7	41.1	4.1	.1	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.3	.1	.*	.0	.0		.4	5.0	.2	.2	1.1	.0	
NE	.3	.*	.0	.0	.0		.4	4.6	.2	.8	.3	.2	
E	.5	.5	.0	.0	.0		1.0	6.5	1.2	1.1	.8	.8	
SE	3.5	21.9	6.9	.4	.0		32.7	12.5	30.4	35.4	32.8	32.8	
S	8.4	28.3	8.0	.6	.0		45.3	11.7	44.0	47.1	44.6	46.0	
SW	4.9	7.3	.8	.*	.0		13.0	8.6	16.4	10.3	12.5	12.3	
W	2.5	2.0	.*	.0	.0		4.6	6.6	5.0	2.8	5.2	5.1	
NW	.5	.2	.*	.0	.0		.8	5.7	.9	.4	1.0	.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.8						1.8	.0	1.7	1.8	1.7	2.1	
TOT OBS	493	1307	341	22	0	2163		11.0	606	488	633	436	
TOT PCT	22.8	60.4	15.8	1.0	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1895-1976

APRIL

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					4R+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00603	1.7	3.3	52.8	38.3	3.8	.2	.0	10.7	100.0	606
06609	1.8	2.3	48.4	43.2	4.1	.2	.0	11.1	100.0	488
12615	1.7	3.6	49.9	39.5	5.1	.2	.0	11.0	100.0	633
18621	2.1	3.0	46.8	45.0	3.2	.0	.0	11.1	100.0	436
TOT	39	67	1076	889	89	3	0	11.0		2163
PCT	1.8	3.1	49.7	41.1	4.1	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.1	.1		6.5
NE	.0	.0	.4	.1		6.2
E	.4	.1	.3	.1		3.6
SE	4.3	5.5	14.8	11.2		5.8
S	6.6	8.8	20.7	11.5		5.4
SW	2.5	1.9	4.0	1.8		4.8
W	.4	.4	.7	1.0		5.7
NW	.8	.8	.1	.2		6.4
VAR	.0	.0	.0	.0		.0
CALM	.3	.7	.8	.4		5.1
TOT OBS	151	182	438	276	1047	5.5
TOT PCT	14.4	17.4	41.8	26.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
NE	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
E	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.5	
SE	.0	.1	.0	2.6	11.9	6.8	2.1	.2	.2	.3	11.6	
S	.1	.2	.4	3.5	12.7	8.4	2.1	.5	.3	.5	18.9	
SW	.2	.0	.0	.3	1.6	1.5	.5	.0	.1	.1	5.9	
W	.0	.0	.0	.1	.4	.5	.2	.0	.1	.0	1.2	
NW	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.6	.1	.0	.1	.0	1.1	
TOT OBS	3	3	4	69	287	188	53	7	8	9	416	1047
TOT PCT	.3	.3	.4	6.6	27.4	18.0	5.1	.7	.8	.9	39.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6
= OR >5000	2.0	2.2	2.2	2.3	2.3	2.3	2.3	2.3
= OR >3500	5.7	7.2	7.3	7.4	7.4	7.4	7.4	7.4
= OR >2000	18.7	25.0	25.4	25.4	25.4	25.4	25.4	25.4
= OR >1000	43.3	51.9	52.6	52.7	52.7	52.7	52.7	52.7
= OR >600	48.8	58.5	59.1	59.2	59.2	59.2	59.2	59.2
= OR >300	49.1	58.8	59.5	59.6	59.7	59.7	59.7	59.7
= OR >150	49.2	59.1	59.8	59.9	60.0	60.0	60.0	60.0
= OR >0	49.2	59.2	60.0	60.1	60.3	60.3	60.3	60.3
TOTAL	520	626	634	635	637	637	637	637

TOTAL NUMBER OF OBS: 1057

PCT FREQ NH <5/8: 39.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	5.7	6.3	8.4	9.5	10.2	7.0	13.7	16.3	22.8	.3 1148

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1895-1970

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	.2
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.2	.2
2<5	PCP	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.1	*	.3	.4	.0	.0	.0	.0	.8	.8
	TOT %	.0	.0	.1	.1	.3	.5	.0	.0	.0	.0	1.0	1.0
5<10	PCP	.0	.1	.0	.2	.1	.1	.0	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.1	4.6	7.4	1.3	.6	*	.0	.7	14.7	14.7
	TOT %	.0	.1	.1	4.8	7.5	1.4	.6	*	.0	.7	15.2	15.2
10+	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.2	.2	.6	30.7	38.5	9.2	2.2	.4	.0	1.1	83.3	83.3
	TOT %	.2	.2	.6	30.8	38.6	9.2	2.2	.4	.0	1.1	83.4	83.4
TOT OBS													1220
TOT PCT		.2	.4	.7	35.7	46.6	11.2	2.8	.5	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.2	.2
2<5	0-3	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.1	*	.1	.4	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	*	.2	*	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.1	.4	.5	.0	.0	.0	.0	1.0	1.0
5<10	0-3	.0	.0	.0	.0	.0	.1	*	.0	.0	.6	.8	.8
	4-10	.0	.1	.0	1.6	3.9	1.1	*	.0	.0	.7	7.2	7.2
	11-21	.0	.0	.1	3.1	2.8	.2	.0	.0	.0	.6	6.2	6.2
	22+	.0	.0	.0	.1	.4	.0	.0	.0	.0	.5	.5	.5
	TOT %	.0	.1	.1	4.8	7.1	1.4	.6	*	.0	.6	14.7	14.7
10+	0-3	.1	.0	.3	.6	.3	.5	.1	.0	.0	1.0	2.9	2.9
	4-10	.1	.2	.3	11.9	19.1	7.5	1.7	.3	.0	.0	41.2	41.2
	11-21	*	.0	.1	19.1	17.3	1.2	.2	*	.0	.0	38.0	38.0
	22+	.0	.0	.0	.9	.9	.1	.0	.0	.0	.0	1.9	1.9
	TOT %	.2	.2	.7	32.5	37.7	9.3	2.0	.4	.0	1.0	84.0	84.0
TOT OBS													1402
TOT PCT		.2	.4	.8	37.4	45.2	11.3	2.6	.4	.0	1.7	100.0	

PERIOD: (PRIMARY) 1923-1976
(OVER-ALL) 1895-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
00003	.8	.0	.0	7.0	27.5	16.0	3.7	.4	1.6	.4	57.4	42.6	244
06009	.0	.3	1.3	7.2	32.9	18.9	4.6	1.3	1.0	1.6	69.1	30.9	307
12015	.0	.3	.3	3.6	22.5	15.6	5.0	.0	.0	1.0	48.3	51.7	302
18021	.4	.4	.0	7.8	21.6	19.2	6.9	.8	.4	.0	57.6	42.4	245
TOT	3	3	5	69	289	191	55	7	8	9	639	499	1098
PCT	.3	.3	.5	6.3	26.3	17.4	5.0	.6	.7	.8	58.2	41.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.3	.3	.6	14.2	84.6	344
06009	.0	.3	.5	1.4	15.9	81.9	370
12015	.0	.0	.0	1.0	10.7	88.3	392
18021	.0	.0	.0	.9	18.9	80.1	317
TOT	0	2	3	14	210	1194	1423
PCT	.0	.1	.2	1.0	14.8	83.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	.9	.9	9.6	50.9	39.6	230
06009	.0	1.7	10.3	60.7	29.0	300
12015	.0	.7	5.5	44.7	49.8	291
18021	.4	.8	9.3	50.8	39.8	236
TOT	3	11	91	549	417	1057
PCT	.3	1.0	8.6	51.9	39.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.0	.1	.5	.2	.0	7	.8
80/84	.0	.0	.0	.2	2.0	3.2	5.6	.9	106	12.0
75/79	.0	.0	.0	.1	4.5	17.4	10.6	2.8	314	35.5
70/74	.0	.0	.0	.1	3.2	18.2	19.3	3.2	389	44.0
65/69	.0	.0	.0	.2	.1	1.2	4.1	1.5	63	7.1
60/64	.0	.0	.0	.0	.0	.1	.3	.2	6	.7
TOTAL	0	0	0	6	88	359	356	76	885	100.0
PCT	.0	.0	.0	.7	9.9	40.6	40.2	8.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.1	.1	.1	.2	*	.0	.2
80/84	.1	.2	.1	1.9	5.8	2.6	.8	.1	.3
75/79	.2	.3	.6	13.2	15.6	4.0	.8	.2	.6
70/74	.0	.0	.1	20.4	21.0	2.2	.0	.0	.3
65/69	.0	.0	.1	3.2	3.3	.3	.2	.0	.0
60/64	.0	.0	.0	.6	*	*	.0	.0	.0
TOTAL	.3	.6	.9	38.9	46.4	9.2	2.0	.3	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	85	82	80	73	67	62	60	73.6	601
06009	84	82	81	73	68	63	61	73.7	484
12015	92	87	84	77	70	66	58	76.6	630
18021	86	83	81	74	67	63	59	74.2	437
TOT	92	85	82	74	68	63	58	74.6	2152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.0	5.2	37.0	46.0	11.8	81	211
06009	.0	.0	5.7	41.0	42.2	11.1	80	244
12015	.0	1.3	22.2	44.4	28.0	4.2	76	239
18021	.0	1.5	5.5	41.0	44.5	7.5	79	200
TOT	0	6	89	366	356	77	79	894

PERIOD: (PRIMARY) 1923-1976
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APRIL

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.1		2	.0	.2
7/8	.0	.0	.0	.2	.2	.3	.3	.0		10	.0	.9
6	.0	.0	.0	.1	.0	.1	.1	.0		3	.0	.3
5	.0	.0	.0	.1	.6	.3	.3	.4		20	.0	1.7
4	.0	.0	.1	.1	.3	.6	.8	.0		21	.1	1.7
3	.0	.0	.1	.0	.5	.6	.7	.1		23	.0	2.0
2	.0	.1	.1	.2	1.3	1.3	.9	.4		49	.0	4.3
1	.0	.0	.2	.1	1.7	1.5	1.0	.0		51	.1	4.4
0	.0	.2	.7	1.5	4.5	3.1	1.5	.0		130	.2	11.2
-1	.0	.0	.3	3.2	7.2	3.8	.9	.0		177	.0	15.5
-2	.0	.3	1.0	3.1	7.7	3.0	1.7	.0		192	.3	16.5
-3	.0	.2	.5	4.9	5.6	2.8	.4	.0		165	.1	14.3
-4	.1	.0	.6	2.6	4.5	2.4	.5	.0		124	.0	10.8
-5	.0	.2	.3	2.1	2.7	1.5	.1	.0		78	.0	6.8
-6	.0	.0	.3	1.5	1.5	.1	.0	.0		39	.0	3.4
-7/-8	.1	.3	.7	.7	1.2	.4	.0	.0		39	.1	3.3
-9/-10	.0	.2	.1	.3	.5	.0	.0	.0		13	.0	1.1
-11/-13	.0	.1	.2	.2	.0	.0	.0	.0		5	.0	.4
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0		1	.0	.1
TOTAL	2	16	59	240	458	249	105	2		1144	.8	1135
PCT	.2	1.4	5.2	21.0	40.0	21.8	9.2	1.1	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.0	.0	.5	.0	.0	.0	.0	.0	.5

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.1	.0	.0	.0	.0	.5	.3	.2	1.1	.0	.0	.0	.0	1.2	.2
1-2	.0	.3	.0	.0	.0	.0	.0	.0	.0	4.1	2.6	.0	.0	.0	6.9	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	11.8	.2	.0	.0	16.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.6	.2	.0	.0	7.7	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.5	.3	.0	.0	2.2	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.2	.0	.0	.7	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.*	.0	.0	.8	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.4	.0	.0	.0	.0	.8	.3	.3	11.6	22.8	1.1	.0	.0	35.7	.0

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	2.3	.1	.0	.0	.0		2.6	.2	1.0	.0	.0	.0	.0		1.2
1-2	.0	10.9	4.3	.0	.0	.0		15.2	.1	3.8	.6	.0	.0	.0		4.5
3-4	.0	5.9	10.7	.3	.0	.0		17.0	.0	1.7	.7	.0	.0	.0		2.4
5-6	.0	2.1	5.8	.1	.0	.0		8.0	.1	.4	.3	.0	.0	.0		.8
7	.0	.8	2.5	.6	.0	.0		3.8	.0	*	*	.2	.0	.0		.2
8-9	.0	.1	1.1	.2	.0	.0		1.4	.0	*	.1	.0	.0	.0		.1
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.2	.4	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.1	.0	.0		.2	.0	.0	*	.0	.0	.0		*
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	22.1	24.8	2.2	.0	.0		49.2	.5	6.8	1.7	.2	.0	.0		9.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.2	.0	.0	.0	.0		.3	.0	.3	.0	.0	.0	.0		.3	
1-2	.0	1.0	.1	.0	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
3-4	.0	.2	.0	.0	.0	.0		.2	.0	.1	.0	.0	.0	.0		.1	
5-6	.0	.4	.0	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0		.1	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	1.7	.1	.0	.0	.0		2.0	.0	.5	.0	.0	.0	.0		.5	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	5.1	.1	.0	.0	.0	8.5	
1-2	.4	20.1	7.5	.0	.0	.0	28.0	
3-4	.0	12.1	23.1	.6	.0	.0	35.8	
5-6	.1	4.7	11.6	.4	.0	.0	16.8	
7	.0	1.3	4.0	1.1	.0	.0	6.3	
8-9	.0	.2	1.6	.0	.0	.0	2.2	
10-11	.0	.0	.7	.5	.0	.0	1.2	
12	.0	.0	.5	.5	.0	.0	1.0	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	43.6	49.2	3.5	.0	.0	100.0	835

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	7.1	10.7	5.0	3.7	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	299	4
6-7	.0	1.8	6.8	6.4	5.8	3.9	1.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	6
8-9	.0	.0	1.8	4.2	3.7	2.1	1.1	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	7
10-11	.0	.5	1.3	2.5	1.5	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	6
12-13	.0	.0	.7	.7	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
>13	.0	.0	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
INDET	2.2	3.7	6.0	2.8	2.8	1.4	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	4
TOTAL	4.1	13.3	27.7	22.2	18.7	9.4	3.5	1.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1015	5
PCT	4.0	13.1	27.3	21.9	18.4	9.3	3.4	1.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1881-1976

MAY

AREA 0015 LUBITD
13.75 8.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.3	.0	.1	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	99.2
S	.0	.0	.7	.0	.0	.0	.0	.7	.0	.2	.7	.1	.6	.0	97.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.2	1.0	.0	97.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	94.1
TOT PCT	.1	.0	.4	.0	.0	.0	.0	.5	.0	.1	.9	.1	.4	.0	98.0
TOT OBS:	1172														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
00003	.0	.0	.7	.0	.0	.0	.0	.7	.0	.3	.7	.0	.0	.0	98.3
06009	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.6	.0	.6	.0	97.4
12015	.0	.0	.3	.0	.0	.0	.0	.3	.3	.0	1.3	.3	.3	.0	97.5
18021	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	.0	98.6
TOT PCT	.1	.0	.4	.0	.0	.0	.0	.5	.1	.1	.9	.1	.4	.0	97.9
TOT OBS:	1198														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21	
N	.1	.2	.0	.0	.0	.0	.0	.3	3.8		.5	.0	.3	.5	.4	.0	.0	.0	
NE	.3	.5	.0	.0	.0	.0	.0	.8	5.1		.9	.5	.5	.0	.8	2.1	.9	.0	
E	.0	.4	.1	.1	.0	.0	.0	.6	9.7		.3	.5	1.5	.9	.3	.3	.7	.4	
SE	.3	8.2	12.9	1.4	.1	.0	.0	22.9	13.0		19.6	17.7	24.0	37.0	25.6	17.7	22.5	27.4	
S	1.5	24.0	23.7	2.2	.3	.0	.0	51.8	11.6		51.6	55.9	55.2	51.2	50.1	53.3	44.8	59.7	
SW	1.4	10.9	4.7	.4	.0	.0	.0	17.4	9.1		19.3	19.1	14.6	8.1	16.7	17.8	22.8	10.4	
W	.3	2.3	.4	.0	.0	.0	.0	3.0	7.2		3.9	2.5	1.8	.9	1.8	6.1	4.6	1.1	
NW	.2	.9	.1	.0	.0	.0	.0	1.2	5.5		1.7	.8	.0	.5	2.1	1.1	1.6	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1							2.1	.0		2.2	3.0	2.2	.9	2.2	1.6	2.0	.9	
TOT OBS	137	1063	939	93	10	0	2242		11.0		462	199	372	108	453	188	347	113	
TOT PCT	6.1	47.4	41.9	4.1	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.3	.0	.0	.0	.0		.3	3.8	.4	.3	.3	.0
NE	.6	.1	.0	.0	.0		.8	5.1	.8	.4	1.2	.7
E	.4	.1	.1	.0	.0		.6	9.7	.4	1.4	.3	.7
SE	2.4	14.7	5.5	.3	.0	22.9	13.0		19.1	26.9	23.2	23.7
S	9.8	32.2	9.1	.6	.1	51.8	11.6		52.9	54.3	51.1	48.5
SW	6.7	8.7	1.9	.1	.0	17.4	9.1		19.2	13.1	17.0	19.8
W	1.5	1.4	.1	.0	.0	3.0	7.2		3.5	1.6	3.1	3.8
NW	.9	.3	.0	.0	.0	1.2	5.5		1.4	.1	1.8	1.2
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0
CALM	2.1					2.1	.0		2.4	1.9	2.0	1.7
TOT OBS	554	1289	373	23	3	2242		11.0	661	480	641	460
TOT PCT	24.7	57.5	16.6	1.0	.1	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1881-1976

MAY

AREA 0015 LOBITO
13.75 8.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
0000	2.4	4.0	46.6	41.6	3.9	.6	.0	10.8
0600	1.9	3.5	47.9	43.5	2.7	.4	.0	10.9
1200	2.0	4.4	48.0	40.1	5.0	.5	.0	11.0
1800	1.7	3.0	47.2	43.0	4.8	.2	.0	11.3
TOT	46	91	1063	939	93	10	0	11.0
PCT	2.1	4.1	47.4	41.9	4.1	.4	.0	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.0	.1	5.5	.0
NE	.1	.2	.1	.1	3.8	.0
E	.4	.2	.1	.0	2.3	.0
SE	4.3	4.6	12.1	5.6	5.3	.0
S	12.1	8.3	21.4	12.1	5.0	.0
SW	3.7	2.6	4.5	2.7	4.5	.1
W	.7	.5	.6	.6	4.4	.0
NW	.4	.0	.3	.1	3.8	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.9	.4	6.3	.0
TOT OBS	224	168	408	221	1021	5.0
TOT PCT	21.9	16.5	40.0	21.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	
.0	.1	.0	3.1	6.6	4.6	1.2	.1	.1	.3	10.4	
.0	.2	.4	4.7	12.8	9.0	2.4	.8	.2	.1	23.4	
.1	.2	1.1	2.4	1.7	.3	.2	.1	.1	.1	7.1	
.0	.0	.0	.1	.2	.3	.2	.0	.1	.1	1.4	
.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.2	.7	.2	.0	.0	.0	.3	
.4	.6	9.6	22.9	16.8	4.4	1.1	.6	.6	.6	45.0	1021
.1	.4	.6	9.4	22.4	16.5	4.3	1.1	.6	.6	44.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>3500	5.9	6.8	6.9	6.9	7.1	7.1	7.1	7.1	7.1
>2000	19.8	23.0	23.2	23.2	23.4	23.4	23.4	23.4	23.4
>1000	39.4	45.2	45.5	45.5	45.7	45.7	45.7	45.7	45.7
>600	47.3	54.3	54.8	54.8	55.0	55.0	55.0	55.0	55.0
>300	47.6	54.9	55.4	55.4	55.6	55.6	55.6	55.6	55.6
>150	47.9	55.3	55.7	55.7	55.9	55.9	55.9	55.9	55.9
>0	47.9	55.3	55.7	55.7	55.9	56.0	56.0	56.0	56.0
TOTAL	496	572	577	577	579	580	580	580	580

TOTAL NUMBER OF OBS: 1035

PCT FREQ NH <5/8: 44.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
10.8	7.5	9.1	8.4	7.8	8.2	12.8	15.3	20.0	.1	1104

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1881-1976

MAY

TABLE 8

AREA 0015 LOBITO
13.75 8.5E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1
2<5	PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.1	.0	.0	.1	.7	.2	.1	.0	.0	.0	.0	1.1
	TOT %	.1	.0	.0	.1	1.0	.2	.1	.0	.0	.0	.0	1.4
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.2	.1	2.2	8.3	2.4	.3	*	.0	.4	13.9	
	TOT %	*	.2	.1	2.2	8.3	2.4	.3	*	.0	.4	13.9	
10+	PCP	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.1	.2	.8	23.4	45.0	10.6	2.1	.9	.0	1.0	84.0	
	TOT %	.1	.2	.8	23.5	45.1	10.6	2.1	.9	.0	1.0	84.3	
TOT OBS													
TOT PCT													
		.3	.4	.8	26.0	54.4	13.3	2.5	.9	.0	1.5	100.0	1163

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1
2<5	0-3	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
	4-10	.0	.0	.0	*	.4	*	.1	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.1	.5	*	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.1	1.0	.1	.1	.0	.0	.0	.0	1.3
5<10	0-3	.0	.1	.0	.0	.1	.1	.1	.0	.0	.4	1.0	
	4-10	*	*	.1	.7	2.7	1.5	.1	*	.0	.0	5.1	
	11-21	.0	.0	.0	1.5	4.3	.5	.1	.0	.0	.0	6.5	
	22+	.0	.0	.0	.3	.7	*	.0	.0	.0	.0	1.0	
	TOT %	*	.2	.1	2.6	7.8	2.2	.3	*	.0	.4	13.6	
10+	0-3	.0	.1	.0	.1	1.3	.7	.1	.1	.0	1.0	3.3	
	4-10	.1	.1	.4	8.8	22.0	7.4	1.5	.7	.0	.0	41.0	
	11-21	.0	.1	.2	13.7	22.4	2.2	.2	.0	.0	.0	38.7	
	22+	.0	.0	.1	.9	.6	.0	.0	.0	.0	.0	1.6	
	TOT %	.1	.3	.7	23.4	46.2	10.3	1.8	.7	.0	1.0	84.6	
TOT OBS													
TOT PCT													
		.2	.5	.8	26.3	55.0	12.8	2.1	.8	.0	1.4	100.0	1341

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1881-1976

MAY

AREA 0015 LOBITO
13.75 8.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 53.0	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.4	1.2	7.2	23.3	13.7	4.4	2.0	.4	.4	53.0	47.0	249
06009	.0	.7	1.1	9.5	22.8	19.3	6.0	1.1	.7	1.8	62.8	37.2	285
12015	.4	.4	.0	8.9	18.1	15.7	3.6	.4	1.1	.7	49.1	50.9	281
18021	.0	.0	.0	10.9	23.0	14.9	3.2	1.2	.0	.4	53.6	46.4	248
TOT	1	4	6	97	231	170	46	12	6	9	582	481	1063
PCT	.1	.4	.6	9.1	21.7	16.0	4.3	1.1	.6	.8	54.8	45.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.0	.0	.0	1.2	14.8	84.0	344
06009	.0	.3	.0	1.8	14.0	83.9	342
12015	.3	.3	.3	1.4	12.8	85.0	366
18021	.3	.3	.0	1.0	13.7	84.8	315
TOT	2	3	1	18	189	1154	1367
PCT	.1	.2	.1	1.3	13.8	84.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.7	9.5	45.6	44.8	241
06009	.0	2.1	12.9	51.4	35.7	280
12015	.4	1.1	10.3	40.2	49.4	271
18021	.0	.4	12.3	43.2	44.4	243
TOT	1	14	117	468	450	1035
PCT	.1	1.4	11.3	45.2	43.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
80/84	.0	.1	.0	.0	.5	1.7	1.4	.2	37	4.0
75/79	.0	.0	.0	.4	1.1	8.2	6.7	2.0	169	18.4
70/74	.0	.0	.1	1.7	6.9	16.4	16.3	4.2	420	45.7
65/69	.0	.0	.0	.5	1.6	8.7	9.5	3.9	223	24.3
60/64	.0	.0	.0	.1	.1	1.0	2.9	2.8	64	7.0
55/59	.0	.0	.0	.0	.0	.0	.1	.3	4	.4
TOTAL	0	1	1	26	94	333	340	124	919	100.0
PCT	.0	.1	.1	2.8	10.2	36.2	37.0	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.0	.0	.1	.0	.0	.0	.0
.0	.1	.2	.3	1.5	1.4	.1	.1	.0	.3
.0	.1	.1	3.9	8.5	4.5	.8	.2	.0	.2
.2	.1	.1	13.5	26.7	4.3	.7	.1	.0	.1
.0	.0	.1	6.8	13.4	3.6	.4	.0	.0	.0
.0	.0	.0	.5	5.2	1.1	.2	.0	.0	.0
.0	.0	.1	.0	.2	.1	.0	.0	.0	.0
.2	.4	.6	25.0	55.6	15.0	2.2	.4	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	82	79	71	63	60	57	71.1	666
06009	86	82	79	71	63	59	56	71.0	477
12015	90	86	82	73	65	62	57	73.8	639
18021	91	82	80	71	64	61	60	71.8	456
TOT	91	84	81	72	64	60	56	72.0	2238

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.0	4.5	30.0	47.4	16.2	81	247
06009	.0	2.9	8.2	33.9	39.6	15.5	80	245
12015	.0	3.8	19.7	40.2	27.4	9.0	76	234
18021	.0	3.3	8.6	40.2	34.0	13.9	79	209
TOT	0	28	95	335	349	128	79	935

PERIOD: (PRIMARY) 1922-1976
(OVER-ALL) 1881-1976

MAY

AREA 0015 LOBITO
13.75 8.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.2	.1	.2	.0	.2	7	.0	.6
9/10	.0	.0	.0	.0	.3	.0	.1	.1	.0	5	.0	.5
7/8	.0	.0	.0	.0	.1	.2	.1	.0	.0	4	.0	.4
6	.0	.0	.0	.0	.2	.1	.0	.0	.0	3	.0	.3
5	.0	.2	.3	.2	.3	.2	.2	.1	.0	15	.0	1.4
4	.1	.0	.3	.5	.3	.2	.1	.1	.0	16	.0	1.5
3	.0	.0	.4	.4	.5	.4	.0	.0	.0	17	.0	1.5
2	.0	.2	.5	1.4	1.0	1.0	.5	.3	.0	53	.1	4.7
1	.1	.6	.8	1.1	1.0	1.1	.2	.1	.0	55	.0	5.0
0	.2	.4	1.0	3.3	3.3	1.5	.2	.0	.0	108	.0	9.8
-1	.0	.5	1.7	4.9	4.5	2.3	.5	.0	.0	160	.0	14.5
-2	.1	1.0	2.6	6.6	4.3	1.5	.4	.0	.0	181	.2	16.3
-3	.1	.8	2.5	8.5	2.9	1.2	.0	.0	.0	176	.1	15.9
-4	.3	1.2	2.0	3.4	2.3	.9	.2	.0	.0	112	.2	10.0
-5	.3	.6	2.5	2.8	1.4	.4	.1	.0	.0	89	.1	8.0
-6	.0	.5	.9	1.0	.9	.1	.0	.0	.0	38	.1	3.4
-7/-8	.0	.3	1.0	1.4	.9	.1	.0	.0	.0	40	.1	3.5
-9/-10	.0	.0	.6	.2	.3	.1	.0	.0	.0	13	.0	1.2
-11/-13	.0	.0	.5	.1	.0	.0	.0	.0	.0	6	.0	.5
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	12	70	195	393	269	123	29	7	2	1100	.8	1091
PCT	1.1	6.4	17.7	35.7	24.5	11.2	2.6	.6	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.6	.1	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	.0	.1	5.4	2.7	.0	.0	.0	8.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.3	.0	.0	.0	10.6
5-6	.0	.0	.1	.0	.0	.0	.1	.0	4.4	4.4	.3	.0	.0	5.2
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	2.5	.2	.0	.0	2.6
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.1	.2	.0	.0	.6	.1	9.8	17.1	1.2	.0	.0	28.2

PERIOD: (OVER-ALL) 1963-1976

MAY

TABLE 18 (CONT)

AREA 0015 LOB:TO
13.75 8.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	1.9	.4	.0	.0	.0	3.1	.2	2.0	.8	.0	.0	.0	2.2	
1-2	.8	16.2	4.0	.0	.0	.0	21.1	.3	4.9	.8	.0	.0	.0	6.0	
3-4	.1	5.4	12.0	.0	.0	.0	17.4	.0	.5	1.9	.0	.0	.0	2.4	
5-6	.0	.7	8.1	.4	.0	.0	9.3	.0	.1	.8	.0	.0	.0	.9	
7	.0	.0	2.0	.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.5	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.5	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	24.3	27.7	1.1	.0	.0	54.6	.5	7.6	3.5	.0	.0	.0	11.6	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.2	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4		
1-2	.1	.6	.0	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	.4		
3-4	.0	.4	.1	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1		
5-6	.0	.1	.4	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.1		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	1.3	.5	.0	.0	.0	2.0	.1	.8	.0	.0	.0	.0	1.0	98.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.6	5.6	.6	.0	.0	.0	9.7	
1-2	1.3	27.2	7.5	.0	.0	.0	36.0	
3-4	.1	9.6	21.0	.0	.0	.0	30.8	
5-6	.1	1.4	13.7	.7	.0	.0	15.9	
7	.0	.0	4.4	.6	.0	.0	5.0	
8-9	.0	.0	.7	.6	.0	.0	1.3	
10-11	.0	.1	.5	.5	.0	.0	1.1	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	43.9	48.5	2.5	.0	.0	100.0	842

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	9.6	8.1	4.6	2.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	265	3
6-7	.0	1.9	7.8	9.1	5.5	1.9	.5	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	273	5
8-9	.0	1.1	2.1	5.2	3.4	2.1	1.0	.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	6
10-11	.0	1.0	2.5	2.3	1.5	.8	.6	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	5
12-13	.0	.0	1.0	1.2	.5	.2	.2	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
>13	.0	.0	.0	.3	.2	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
INDET	2.3	2.8	3.7	2.9	2.9	1.0	1.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	4
TOTAL	40	164	252	256	160	65	35	9	20	4	0	0	0	0	0	0	0	0	0	1005	5
PCT	4.0	16.3	25.1	25.5	15.9	6.5	3.5	.9	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1896-1975

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	83.3
SE	.1	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	1.0	.0	98.7
S	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.8	.2	.3	.2	98.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.8	.0	96.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	85.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.2	.0	.0	.0	87.8
TOT PCT	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	1.2	.2	.5	.1	97.8
TOT OBS:	1097														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	.4	.0		98.4
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.3	.3	.0		97.9
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.0	.0	.7	.0		97.0
18021	.4	.0	.0	.0	.0	.0	.0	.4	.4	.0	.7	.0	.7	.4		97.4
TOT PCT	.1	.0	.0	.0	.0	.0	.0	.1	.1	.1	1.2	.2	.5	.1		97.7
TOT OBS:	1121															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.7	.9	.1	.0	.0	.0	1.6	4.3	1.9	2.6	1.9	.0	1.7	1.4	1.2	.5		
NE	.4	.7	*	.0	.0	.0	1.1	4.1	.6	1.8	1.9	1.1	1.0	.6	.9	.5		
E	.3	.6	.1	.0	.0	.0	1.1	6.0	.5	1.8	1.9	.0	1.2	1.7	.4	.5		
SE	.7	10.0	13.7	1.8	.3	*	26.6	13.1	24.2	17.9	30.0	35.3	28.9	18.9	27.4	35.0		
S	2.8	21.8	17.3	1.6	.1	.0	43.6	11.0	44.7	43.2	45.9	47.1	43.1	41.1	40.0	47.6		
SW	1.4	10.9	3.2	.2	.0	.0	15.8	8.4	18.0	20.1	11.6	12.4	13.5	19.3	18.0	11.6		
W	.8	3.7	.3	.0	.0	.0	4.8	6.0	3.5	5.4	1.4	2.6	4.9	11.6	6.9	3.2		
NW	.4	1.1	*	.0	.0	.0	1.6	5.1	1.8	2.6	.7	.5	1.8	3.4	1.5	.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.8						3.8	.0	4.8	4.6	4.6	1.1	3.9	2.2	3.6	1.1		
TOT OBS	233	1016	713	74	8	1	2045		398	194	348	95	407	179	329	95		
TOT PCT	11.4	49.7	34.9	3.6	.4	*		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	18
N	1.5	.1	*	.0	.0		1.6	4.3	2.1	1.5	1.6	1.1
NE	1.0	.1	.0	.0	.0		1.1	4.1	1.0	1.7	.9	.8
E	.7	.3	*	.0	.0		1.1	6.0	.9	1.5	1.4	.4
SE	3.8	15.8	6.0	.8	.2		26.6	13.1	22.2	31.1	25.8	29.1
S	9.5	26.5	6.9	.7	*		43.6	11.0	44.2	46.2	42.5	41.7
SW	6.0	8.9	.7	.1	.0		15.8	8.4	18.7	11.8	13.2	16.6
W	3.3	1.5	.0	.0	.0		4.8	6.0	4.1	1.7	7.0	6.1
NW	1.3	.4	.0	.0	.0		1.6	5.1	2.1	.7	2.3	1.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8						3.8	.0	4.7	3.8	3.4	3.1
TOT OBS	632	1095	282	32	4	2045		10.2	392	443	586	424
TOT PCT	30.9	53.5	13.8	1.6	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1896-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.7	8.1	48.0	35.8	3.0	.3	.0	10.0	100.0	592
06009	3.8	7.2	49.2	35.9	3.4	.5	.0	10.3	100.0	443
12015	3.4	8.2	51.2	33.1	3.6	.3	.2	10.0	100.0	586
18021	3.1	6.4	50.5	34.9	4.7	.5	.0	10.6	100.0	424
TOT	78	155	1016	713	74	8	1	10.2		2045
PCT	3.8	7.6	49.7	34.9	3.6	.4	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.0	.1	.1		3.3
NE	.3	.0	.2	.0		3.4
E	.2	.0	.2	.1		4.0
SE	5.1	3.9	12.9	12.1		5.8
S	10.2	3.6	15.4	17.8		9.5
SW	3.1	1.2	2.8	5.0		5.2
W	.3	.1	.3	.8		5.6
NW	.1	.1	.0	.2		4.9
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	.7	.9		4.2
TOT OBS	195	90	308	348	941	5.5
TOT PCT	20.7	9.6	32.7	37.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
NE	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	.3	
E	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
SE	.0	.0	.1	3.2	12.0	7.3	1.5	.0	*	.0	9.8	
S	.0	.0	.3	3.8	14.0	11.0	2.2	.2	.1	.2	15.2	
SW	.2	.1	.3	1.2	2.7	2.3	.7	.0	.1	.1	4.4	
W	.0	.0	.0	.2	.2	.3	.3	.1	.0	.0	.5	
NW	.0	.0	.0	.0	.1	.0	.1	*	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.6	.5	.1	.0	.1	.0	1.9	
TOT OBS	2	1	7	83	281	202	47	3	3	4	308	941
TOT PCT	.2	.1	.7	8.8	29.9	21.5	5.0	.3	.3	.4	32.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	# OR >10	# OR >5	# OR >2	# OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0
# OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
# OR >5000	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
# OR >3500	4.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0
# OR >2000	21.1	26.7	27.4	27.4	27.4	27.4	27.4	27.4
# OR >1000	46.9	56.8	57.5	57.5	57.5	57.5	57.5	57.5
# OR >600	55.2	65.4	66.2	66.2	66.2	66.2	66.2	66.2
# OR >300	55.8	66.1	67.0	67.0	67.0	67.0	67.0	67.0
# OR >150	55.8	66.2	67.1	67.1	67.1	67.1	67.1	67.1
# OR >0	55.8	66.4	67.2	67.2	67.3	67.3	67.3	67.3
TOTAL	529	629	637	637	638	638	638	638

TOTAL NUMBER OF OBS: 948

PCT FREQ NH <5/8: 32.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	11.8	5.2	5.2	5.3	4.5	5.3	11.5	16.5	34.6	1002

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1896-1975

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.6
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.4	.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.5	.1	.0	.0	.0	.1	.9	.9
	TOT %	.0	.0	.0	.2	.5	.1	.0	.0	.0	.1	.9	.9
5<10	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	3.8	8.7	2.3	.5	.2	.0	1.2	16.9	16.9
	TOT %	.1	.1	.1	3.8	8.7	2.3	.5	.2	.0	1.2	17.0	17.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.5	.4	28.7	38.2	9.1	1.2	.4	.0	2.1	81.1	81.1
	TOT %	.4	.5	.4	28.7	38.2	9.1	1.2	.4	.0	2.1	81.1	81.1
TOT OBS													1093
TOT PCT		.5	.6	.5	32.9	47.6	11.8	1.6	.6	.0	3.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	.4	
	4-10	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.2	.3	
	4-10	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.3	.6	.1	.1	.0	.0	.2	1.2	
5<10	0-3	.0	.0	.0	.1	.6	.2	.1	.2	.0	1.2	2.3	
	4-10	.1	.1	.1	1.3	3.7	1.7	.4	.1	.0	.0	7.4	
	11-21	.0	.0	*	2.1	3.6	.3	.0	.0	.0	.0	6.1	
	22+	.0	.0	.0	.4	.6	.1	.0	.0	.0	.0	1.1	
	TOT %	.1	.1	.1	3.9	8.5	2.2	.5	.3	.0	1.2	16.8	
10+	0-3	.2	.2	.2	.5	1.9	.7	.1	.1	.0	1.9	5.9	
	4-10	.3	.3	.2	10.9	19.7	7.1	.9	.3	.0	.0	39.6	
	11-21	.0	.0	.2	15.3	15.6	1.6	.1	.0	.0	.0	32.9	
	22+	.0	.0	.0	1.9	.7	.0	.0	.0	.0	.0	2.7	
	TOT %	.5	.5	.5	28.6	38.0	9.4	1.1	.4	.0	1.9	81.0	
TOT OBS													1205
TOT PCT		.6	.6	.7	33.0	47.3	11.9	1.7	.7	.0	3.6	100.0	

PERIOD: (PRIMARY) 1922-1975
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13.75 8.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.5	.0	.5	10.3	31.0	20.7	1.9	.9	.0	.0	65.7	34.3	213
06009	.4	.4	.4	10.4	35.4	21.5	7.3	.0	.4	.4	76.5	23.5	260
12015	.0	.0	1.2	5.5	24.8	24.0	5.1	.4	.8	.8	62.6	37.4	254
18021	.0	.0	.8	8.5	27.5	19.5	4.7	.0	.0	.4	61.4	38.6	236
TOT	2	1	7	83	286	207	47	3	3	4	643	320	963
PCT	.2	.1	.7	8.6	29.7	21.5	4.9	.3	.3	.4	66.6	33.2	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.3	.3	1.0	19.0	79.3	290
06009	.0	1.0	.0	1.0	14.3	83.8	315
12015	.0	.9	.9	1.5	16.3	80.4	332
18021	.0	.3	.3	2.1	17.8	79.5	292
TOT	0	8	5	17	206	993	1229
PCT	.0	.7	.4	1.4	16.8	80.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.5	1.0	13.0	53.8	33.2	208
06009	.4	1.2	11.5	65.0	23.5	260
12015	.0	1.2	7.7	55.5	36.8	247
18021	.0	.9	10.7	51.5	37.8	233
TOT	2	10	101	538	309	948
PCT	.2	1.1	10.7	56.8	32.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.2	.0	.0	3	.4
75/79	.0	.0	.0	.4	.7	1.9	.5	.4	32	3.8
70/74	.0	.0	.0	1.1	6.6	11.6	7.5	2.2	242	29.0
65/69	.0	.0	.0	.8	8.0	21.2	15.6	2.9	405	48.5
60/64	.0	.0	.0	.0	1.1	5.5	7.2	2.2	133	15.9
55/59	.0	.0	.0	.0	.0	.1	.7	1.6	20	2.4
TOTAL	0	0	0	19	138	339	263	76	835	100.0
PCT	.0	.0	.0	2.3	16.5	40.6	31.5	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.0	.0	.0	.0	.1
.1	.1	.0	.8	.9	1.3	.3	.1	.0	.2
.0	.3	.3	10.8	10.7	4.9	.9	.1	.0	1.0
.2	.0	.1	20.0	24.1	3.7	.0	.1	.0	.2
.0	.1	.0	3.6	9.6	2.1	.1	.0	.0	.4
.1	.1	.0	.1	1.2	.2	.2	.0	.0	.6
.4	.6	.4	35.3	46.7	12.1	1.5	.4	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	76	73	67	59	52	52	66.6	588
06009	81	76	73	67	59	52	52	67.0	445
12015	83	81	77	70	61	52	48	69.7	588
18021	79	77	74	68	60	52	50	67.6	421
TOT	83	78	75	68	59	52	48	67.8	2042

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	12.5	38.0	40.1	8.9	79	192		
06009	.0	1.8	15.3	39.6	29.3	14.0	78	222		
12015	.0	5.3	22.0	44.1	23.8	4.8	75	227		
18021	.0	1.0	14.4	39.2	36.4	9.1	78	209		
TOT	0	19	138	343	272	78	77	850		

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1896-1975

JUNE

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13.75 8.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.2	.0	.1	4	.0	.4
7/8	.0	.0	.0	.0	.1	.1	.5	.0	.2	9	.0	.9
6	.0	.0	.0	.0	.0	.0	.1	.2	.0	3	.0	.3
5	.0	.0	.0	.2	.4	.4	.5	.2	.2	19	.0	1.9
4	.0	.0	.0	.0	.5	.6	.1	.3	.0	15	.0	1.5
3	.0	.0	.0	.1	.1	.3	.3	.1	.0	9	.0	.9
2	.0	.0	.0	.8	1.1	1.1	1.0	.2	.0	42	.1	4.1
1	.0	.0	.0	.7	1.3	2.0	.3	.0	.0	43	.2	4.1
0	.0	.0	.1	1.6	4.0	2.9	1.5	.1	.0	102	.0	10.2
-1	.0	.0	.7	3.1	5.3	5.1	2.1	.2	.0	165	.2	16.3
-2	.0	.2	.6	1.9	6.4	5.3	1.1	.2	.0	157	.3	15.4
-3	.0	.3	.3	2.0	7.0	4.5	1.2	.1	.0	155	.2	15.3
-4	.0	.3	.3	1.8	5.5	2.9	.7	.0	.0	115	.1	11.4
-5	.0	.1	.2	1.0	2.5	2.6	.6	.0	.0	70	.1	6.9
-6	.0	.0	.1	.5	1.4	.8	.2	.0	.0	30	.0	3.0
-7/-8	.0	.0	.4	.3	1.3	.8	.2	.0	.0	30	.0	3.0
-9/-10	.0	.1	.1	1.0	.2	.6	.0	.0	.0	20	.0	2.0
-11/-13	.0	.0	.0	.4	.1	.0	.0	.0	.0	5	.0	.5
-14/-16	.1	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	1		28		373		108		6	998		986
PCT	.1	1.0	2.8	15.4	37.4	30.2	10.8	1.7	.6	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.0	.0	.0	.0	.5	.3	.2	.0	.0	.0	.0	.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	1.3	.0	.0	.0	.0	1.5
1-2	.0	.0	.1	.0	.0	.0	.1	.5	6.7	2.2	.0	.0	.0	9.4
3-4	.0	.0	.1	.0	.0	.0	.1	.0	3.9	7.1	.0	.0	.0	11.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.2	.6	.0	.0	8.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.6	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.1	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.3	.0	.0	.0	.5	.7	12.5	16.7	2.5	.1	.0	32.5

PERIOD: (OVER-ALL) 1963-1975

JUNE

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13.75 8.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	2.3	.2	.0	.0	.0		3.5	.0	1.8	.2	.0	.0	.0		2.6
1-2	.5	13.2	3.7	.0	.0	.0		17.5	.3	5.1	.7	.0	.0	.0		6.2
3-4	.1	7.5	10.0	.1	.0	.0		17.8	.0	1.1	.5	.0	.0	.0		1.6
5-6	.0	1.2	4.4	.1	.0	.0		5.8	.0	.3	.8	.0	.0	.0		1.1
7	.0	.0	2.0	.2	.0	.0		2.2	.0	.0	.1	.0	.0	.0		.1
8-9	.0	.0	.3	.1	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.3	.4	.0	.0		.7	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.6	24.2	21.2	1.1	.0	.0		48.1	.9	8.3	2.3	.0	.0	.0		11.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.7	.0	.0	.0	.0		1.0	.0	.3	.0	.0	.0	.0		.3	
1-2	.1	.7	.0	.0	.0	.0		.8	.0	.2	.0	.0	.0	.0		.2	
3-4	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	1.6	.0	.0	.0	.0		1.9	.0	.5	.0	.0	.0	.0		.5	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	7.0	.4	.0	.0	.0	14.0	
1-2	1.8	26.2	6.7	.0	.0	.0	34.7	
3-4	.1	12.4	17.5	.1	.0	.0	30.2	
5-6	.0	2.1	10.3	.7	.0	.0	13.1	
7	.0	.0	3.6	.8	.0	.0	4.5	
8-9	.0	.1	.6	1.1	.1	.0	2.0	
10-11	.0	.0	.6	.3	.0	.0	.8	
12	.0	.0	.3	.4	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	47.8	40.0	3.5	.1	.0	100.0	715

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	7.8	7.6	3.3	1.4	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201	3
6-7	.0	2.3	6.6	9.1	5.7	2.7	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	5
8-9	.0	1.0	2.9	5.1	4.6	3.0	1.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	6
10-11	.0	.9	.8	1.9	1.1	1.0	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
12-13	.0	.0	1.1	.8	.5	.5	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
13-14	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	3.4	2.9	4.6	5.0	2.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	4
TOTAL	39	130	207	222	141	80	43	11	4	0	0	0	0	0	0	0	0	0	0	877	5
PCT	4.4	14.8	23.6	25.3	16.1	9.1	4.9	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1895-1975

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	92.7	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	.0	89.5	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	.0	.0	21.1	.0	68.4	
SE	.0	.0	.3	.0	.0	.0	.0	.3	.3	.0	.5	.0	1.8	.3	96.9	
S	.2	.2	.3	.0	.0	.0	.0	.7	.0	.5	1.0	.0	2.5	.1	95.2	
SW	.0	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	4.6	.0	93.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	21.2	.0	77.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	15.9	.0	81.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.0	.0	.0	1.5	3.0	.0	.0	6.1	.0	3.0	.0	87.9	
TOT PCT	.2															
TOT OBS:	1241	.1	.4	.0	.0	.0	.1	.7	.1	.4	.9	.0	3.7	.2	94.0	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.0	.3	.3	.0	.0	.0	.0	.6	.0	1.2	1.2	.0	3.1	.3		93.5
06009	.3	.0	.6	.0	.0	.0	.0	1.0	.0	.0	1.0	.0	2.5	.0		95.6
12015	.0	.0	.3	.0	.0	.0	.3	.6	.3	.0	1.1	.0	6.2	.3		91.5
18021	.3	.0	.3	.0	.0	.0	.0	.6	.0	.3	.6	.0	1.9	.0		96.5
TOT PCT	.2															
TOT OBS: 1307	.1	.4	.0	.0	.0	.0	.1	.7	.1	.4	1.0	.0	3.5	.2		94.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	1.1	*	.0	.0	.0		2.0	4.5		1.4	1.9	1.4	1.7	2.7	3.5	2.3	.0
NE	.5	.4	*	.0	.0	.0		1.0	4.0		.4	1.5	2.0	.0	1.5	.2	.7	.0
E	.4	.4	.2	.0	.0	.0		1.0	6.0		.6	2.1	1.8	.0	.9	.2	.7	.9
SE	.8	10.0	15.5	2.3	*	.0		28.7	12.9		27.2	24.6	26.3	44.6	30.2	27.1	25.9	42.7
S	2.6	21.2	14.8	2.0	.1	.0		40.7	10.5		41.7	37.8	48.4	38.3	40.4	35.1	37.3	44.0
SW	1.7	10.9	1.8	.1	.0	.0		14.5	7.3		16.8	18.6	11.3	13.7	11.9	16.5	15.7	8.7
W	1.2	3.0	.2	.0	.0	.0		4.4	5.2		3.9	3.3	2.1	.9	2.6	9.9	8.9	1.8
NW	.8	1.6	*	.0	.0	.0		2.4	4.9		2.5	3.6	.9	.0	2.7	4.5	3.1	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3							5.3	.0		5.6	6.7	5.9	.9	7.0	2.8	5.4	1.8
TOT OBS	324	1108	741	101	3	0	2277		9.5		450	239	357	115	428	212	367	109
TOT PCT	14.2	48.7	32.5	4.4	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.6	.4	.0	.0	.0		2.0	4.5	1.6	1.5	3.0	1.8
NE	.8	.1	.0	.0	.0		1.0	4.0	.8	1.5	1.1	.5
E	.7	.2	*	.0	.0		1.0	6.0	1.1	1.3	.7	.8
SE	4.1	17.1	7.0	.5	.0		28.7	12.9	26.3	30.7	29.2	29.7
S	11.9	22.5	6.0	.3	.0		40.7	10.5	40.3	45.9	38.7	38.8
SW	7.0	7.2	.3	.0	.0		14.5	7.3	17.4	11.9	13.4	14.1
W	3.4	1.0	.0	.0	.0		4.4	5.2	3.7	1.8	3.0	7.2
NW	1.9	.5	.0	.0	.0		2.4	4.9	2.9	.7	3.3	2.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.3						5.3	.0	6.0	4.7	5.6	4.6
TOT OBS	836	1118	304	19	0	2277		9.5	689	472	640	476
TOT PCT	36.7	49.1	13.4	.8	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1975
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00G03	6.0	9.4	46.7	32.7	5.1	.1	.0	9.6	100.0	689
06G09	4.7	7.0	49.4	33.7	4.4	.2	.0	9.7	100.0	472
12G15	5.6	8.8	50.8	30.6	4.1	.2	.0	9.3	100.0	440
18G21	4.6	9.7	47.9	33.8	4.0	.0	.0	9.6	100.0	476
TOT	121	203	1108	741	101	3	0	9.5		2277
PCT	5.3	8.9	48.7	32.5	4.4	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.3	.5		6.4
NE	.0	.0	.1	.2		7.6
E	.2	.1	.3	.1		4.2
SE	1.7	2.1	10.7	19.3		6.9
S	4.4	2.3	12.3	27.1		6.6
SW	1.1	.3	1.4	7.2		6.7
W	.4	.0	.3	1.3		6.3
NW	.2	.1	.2	.9		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.6	1.1	2.1		5.5
TOT OBS	87	52	251	557	947	6.6
TOT PCT	9.2	5.5	26.5	58.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.1	.3	.1	.2	.0	.0	.0	.2	
.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.3	
.2	.1	.4	3.6	10.5	9.8	3.5	.7	.1	.1	4.8	
.2	.2	.3	5.1	15.9	13.3	2.6	.2	.2	.2	8.0	
.3	.1	.0	1.3	3.1	2.7	.4	.0	.1	.1	1.8	
.1	.0	.0	.4	.4	.5	.1	.1	.0	.0	.4	
.0	.0	.0	.5	.2	.2	.0	.0	.0	.0	.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.5	.8	1.3	.0	.0	.0	.0	2.0	
.8	.4	.8	10.5	30.1	26.5	6.6	.9	.4	.4	17.3	947
.8	.4	.8	11.1	31.8	28.0	7.0	1.0	.4	.4	18.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
# DR >6500	.4	.8	.8	.8	.8	.8	.8	.8
# DR >5000	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
# DR >3500	6.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5
# DR >2000	22.7	35.6	36.3	36.3	36.3	36.3	36.3	36.3
# DR >1000	50.5	67.1	68.0	68.0	68.0	68.0	68.0	68.0
# DR >600	58.3	78.4	79.3	79.3	79.3	79.3	79.3	79.3
# DR >300	58.9	79.1	80.0	80.0	80.0	80.1	80.1	80.1
# DR >150	59.1	79.4	80.5	80.5	80.5	80.6	80.6	80.6
# DR >0	59.6	80.1	81.2	81.2	81.3	81.4	81.4	81.4
TOTAL	582	783	793	793	794	795	795	795

TOTAL NUMBER OF OBS: 977

PCT FREQ NH <5/8: 18.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
5.8	2.3	3.9	3.4	3.4	4.7	6.9	14.7	54.5	1047

PERIOD: (PRIMARY) 1923-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
1/2<1	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	*	.3	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	*	.5	.0	.0	.0	.0	.0	.5	.5
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.0	.0	.2	.6	.2	.0	.1	1.2	1.2
	TOT %	.1	.1	.0	.0	.0	.2	.6	.2	.0	.1	1.2	1.2
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.8	.1	.1	.0	.0	.0	.4	1.5	1.5
	TOT %	.0	.0	.0	.8	.2	.1	.0	.0	.0	.4	1.5	1.5
5<10	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	.2
	NO PCP	.6	.6	.5	6.7	14.1	3.6	1.7	.7	.0	2.0	30.6	30.6
	TOT %	.6	.6	.5	6.7	14.1	3.6	1.7	.7	.0	2.1	30.8	30.8
10+	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.4	.1	.3	23.3	29.4	7.4	1.2	.9	.0	2.7	65.6	65.6
	TOT %	.4	.1	.3	23.4	29.5	7.5	1.2	.9	.0	2.7	65.9	65.9
TOT OBS													1239
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	*	.3	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	*	.4	.0	.0	.0	.0	.0	.4	.4
1<2	0-3	.1	.1	.0	.0	.0	.1	.1	.0	.0	.1	.4	.4
	4-10	.0	.0	.0	.0	.0	.1	.4	.1	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.1	.6	.1	.0	.1	1.1	1.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4
	4-10	.0	.0	.0	.2	.3	.1	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.6	.6
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.7	.4	.1	.0	.0	.0	.4	1.6	1.6
5<10	0-3	.2	.4	.1	.4	.8	.2	.6	.1	.0	1.9	4.8	4.8
	4-10	.4	*	.3	2.0	7.0	2.8	.9	.5	.0	.0	13.9	13.9
	11-21	.0	.1	.1	4.1	4.8	.5	.1	.0	.0	.0	9.6	9.6
	22+	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	.8	.8
	TOT %	.6	.5	.5	6.7	13.1	3.5	1.6	.6	.0	1.9	29.2	29.2
10+	0-3	.3	.0	.1	.5	1.9	1.0	.2	.4	.0	2.5	6.8	6.8
	4-10	.1	.1	.1	8.6	15.9	5.3	.9	.4	.0	.0	31.5	31.5
	11-21	.0	.0	.2	13.9	11.5	1.2	.0	.0	.0	.0	26.8	26.8
	22+	.0	.0	.0	1.6	.9	.1	.0	.0	.0	.0	2.6	2.6
	TOT %	.4	.1	.4	24.7	30.2	7.5	1.1	.8	.0	2.5	67.7	67.7
TOT OBS													1413
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.8	.4	.9	9.3	29.5	31.7	6.6	.9	1.3	.0	82.4	17.6	227
06009	.4	.8	.8	14.6	34.1	25.7	8.0	1.1	.0	1.1	86.6	13.4	261
12015	.0	.4	.8	10.9	30.5	28.1	4.7	.8	.0	.0	76.2	23.8	256
18021	1.2	.0	.8	9.6	30.0	24.8	7.2	.8	.4	.4	75.2	24.8	250
TOT PCT	8 .8	4 .4	8 .8	111 11.2	309 31.1	273 27.5	66 6.6	9 .9	4 .4	4 .4	796 80.1	198 19.9	994 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.8	.0	2.6	31.3	65.4	384
06009	.3	.6	.0	1.2	28.9	69.0	342
12015	.2	.5	3.7	1.0	30.9	64.2	402
18021	.3	.0	.0	1.1	31.3	67.3	352
TOT PCT	3 .2	7 .5	15 1.0	22 1.5	451 30.5	982 66.4	1480 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.8	3.2	15.5	69.5	15.0	220
06009	.4	1.9	17.1	70.8	12.1	257
12015	.0	1.2	12.7	64.9	22.3	251
18021	1.2	2.4	12.9	63.5	23.7	249
TOT PCT	8 .9	21 2.1	142 14.5	656 67.1	179 18.3	977 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
75/79	.0	.0	.0	.1	.0	.1	.1	.0	3	.3
70/74	.0	.0	.2	.8	1.9	5.3	3.3	.3	120	11.0
65/69	.0	.0	.0	.8	5.5	23.4	14.1	5.4	503	49.3
60/64	.0	.0	.0	.1	2.3	8.3	18.2	4.6	342	33.5
55/59	.0	.0	.0	.0	.0	.5	2.0	2.6	52	5.1
TOTAL	0	0	2	18	99	384	385	133	1021	100.0
PCT	.0	.0	.2	1.8	9.7	37.6	37.7	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.0	.0	.0	.2	.1	.0	.0	.0	.0	.0
.2	.1	.1	2.4	5.4	1.6	.6	.4	.0	.9
.7	.5	.4	17.6	18.8	4.7	2.0	1.0	.0	2.8
.4	.1	.1	9.2	15.4	4.9	1.2	.6	.0	1.8
.0	.1	.1	.3	3.3	.9	.0	.0	.0	.4
1.3	.8	.7	29.8	43.0	12.1	4.4	2.0	.0	5.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	72	70	64	59	56	49	64.4	701
06009	81	72	70	64	58	56	55	64.6	477
12015	82	77	73	67	60	57	55	65.0	655
18021	81	73	71	66	59	56	50	65.0	488
TOT	82	74	72	65	59	56	49	65.4	2321

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.7	6.6	33.2	40.8	18.7	82	289
06009	.0	2.8	9.1	30.0	38.7	19.4	81	253
12015	.0	3.5	13.0	42.5	34.0	7.0	77	285
18021	.0	.4	9.2	41.4	40.2	8.8	79	249
TOT	0	20	102	396	413	145	80	1076

JULY

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1895-1975AREA 0015 LOBITO
13.65 8.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.0	.1	.1	.1	4	.0	.3
9/10	.0	.0	.0	.0	.0	.2	.1	.2	.0	5	.0	.4
7/8	.0	.0	.0	.0	.2	.3	.3	.0	.0	8	.0	.7
6	.0	.0	.0	.0	.1	.3	.1	.0	.0	5	.0	.4
5	.0	.0	.0	.1	.4	.6	.1	.1	.0	15	.0	1.3
4	.0	.0	.0	.3	.6	.9	.3	.0	.1	25	.0	2.2
3	.0	.0	.0	.2	.7	.8	.3	.0	.0	22	.0	1.9
2	.0	.0	.3	1.1	.9	1.2	.1	.2	.0	43	.0	3.7
1	.0	.0	.1	1.4	1.7	2.0	.5	.0	.0	66	.0	5.7
0	.0	.1	.8	4.1	4.2	2.8	.1	.0	.0	141	.1	12.1
-1	.0	.1	.8	6.5	7.0	2.8	.1	.0	.0	200	.3	17.0
-2	.0	.0	1.4	6.0	8.5	2.0	.3	.0	.0	211	.3	17.9
-3	.0	.2	1.0	3.9	6.0	2.2	.0	.0	.0	154	.2	13.1
-4	.0	.2	1.6	3.7	3.3	1.2	.1	.0	.0	117	.1	10.0
-5	.0	.0	.3	1.9	1.7	.5	.0	.0	.0	51	.1	4.3
-6	.0	.1	.4	1.3	.6	.2	.0	.0	.0	30	.1	2.5
-7/-8	.0	.1	.3	.8	.7	.0	.0	.0	.0	21	.0	1.8
-9/-10	.0	.0	.2	.9	.3	.0	.0	.0	.0	17	.1	1.4
-11/-13	.1	.1	.1	1.2	.1	.0	.0	.0	.0	18	.0	1.6
-14/-16	.1	.1	.3	.1	.0	.0	.0	.0	.0	6	.0	.5
TOTAL	2	10	86	390	429	208	26	6	2	1159	13	1146
PCT	.2	.9	7.4	33.6	37.0	17.9	2.2	.5	.2	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.0	.3	.1
1-2	.1	.4	.0	.0	.0	.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.0	.0	.0	.0	1.0	.1	.1	.1	.0	.0	.0	.0	.4	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.0	.0	.0	.0	.0	1.8	
1-2	.0	.0	.1	.0	.0	.0	.1	.3	7.3	2.8	.0	.0	.0	.0	10.5	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	2.8	10.2	.4	.0	.0	.0	13.3	
5-6	.0	.1	.0	.0	.0	.0	.1	.0	1.0	2.6	.2	.0	.0	.0	3.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	.9	.0	.0	.0	3.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.3	.0	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.1	.2	.0	.0	.0	.4	.4	13.3	19.2	2.0	.0	.0	.0	34.9	

PERIOD: (OVER-ALL) 1963-1975

JULY
TABLE 18 (CONT)AREA 0015 LOBITO
13.65 8.6E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	4.7	.0	.0	.0	.0	5.6	.5	1.8	.0	.0	.0	.0	2.3	
1-2	.9	16.4	2.6	.0	.0	.0	20.0	.7	3.3	.7	.0	.0	.0	4.7	
3-4	.2	5.0	7.0	.1	.0	.0	12.4	.*	1.3	.1	.*	.0	.0	1.5	
5-6	.0	.6	5.3	.2	.0	.0	6.0	.0	.2	.5	.0	.0	.0	.7	
7	.0	.0	1.3	.4	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.2	26.6	16.5	1.1	.0	.0	46.4	1.2	6.6	1.3	.2	.0	.0	9.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.6	.*	.2	.0	.0	.0	.0	.2	
1-2	.1	.1	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.6	.0	.0	.0	.0	.8	.6	.6	.0	.0	.0	.0	1.2	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	9.2	.0	.0	.0	.0	17.5	
1-2	3.0	27.2	6.3	.0	.0	.0	36.5	
3-4	.5	9.0	17.1	.5	.0	.0	27.2	
5-6	.1	2.1	8.2	.4	.0	.0	10.8	
7	.1	.3	3.8	1.2	.0	.0	5.5	
8-9	.0	.1	1.1	.7	.0	.0	1.9	
10-11	.0	.0	.1	.3	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.2	47.9	36.7	3.3	.0	.0	100.0	731

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
6-8	2.4	6.1	10.4	3.8	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	3
6-7	.1	3.6	10.3	8.4	4.2	1.8	1.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	5
8-9	.1	1.4	2.4	5.0	4.8	2.5	.8	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	6
10-11	.0	.8	1.6	1.2	1.3	1.5	.3	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	6
12-13	.0	.0	1.0	.1	.7	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
>13	.0	.0	.0	.0	.2	.5	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
INDET	3.1	2.5	4.5	2.2	3.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	4
TOTAL	52	132	276	190	140	74	27	9	10	2	0	0	0	0	0	0	0	0	0	912	5
PCT	5.7	14.5	30.3	20.8	15.4	8.1	3.0	1.0	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1899-1975

AUGUST

AREA 0015 LOBITO
13.75 8.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT CB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	90.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	94.9
SE	.2	.2	.7	.0	.0	.0	.0	1.1	1.5	.0	.7	.0	.6	.2	95.9
S	.0	.0	1.4	.0	.0	.0	.0	1.4	.8	.0	.8	.2	.6	.0	96.2
SW	.8	.0	1.5	.0	.0	.0	.0	2.3	.9	.0	.8	.0	2.3	.0	93.8
W	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9	.0	94.2
NW	7.8	.0	.0	.0	.0	.0	.0	7.8	.0	.0	.0	.0	7.8	.0	84.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	8.1	.0	5.4	.0	83.8
TOT PCT	.3														
TOT OBS:	1187	.1	1.1	.0	.0	.0	.0	1.5	1.0	.0	1.0	.1	1.1	.1	95.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT GB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.0	.0	1.1	.0	.0	.0	.0	1.1	1.4	.4	.7	.4	.7	.0	95.4
06009	1.0	.3	1.9	.0	.0	.0	.0	3.2	1.0	.0	1.3	.0	1.3	.0	93.3
12015	.3	.0	.3	.0	.0	.0	.0	.6	.9	.0	.9	.0	1.3	.3	95.9
18021	.0	.0	1.0	.0	.0	.0	.0	1.0	.7	.0	1.0	.0	1.0	.0	96.2
TOT PCT	.3														
TOT OBS:	1206	.1	1.1	.0	.0	.0	.0	1.5	1.0	.1	1.0	.1	1.1	.1	95.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	.7	.0	.0	.0	.0		1.1	4.0		.6	1.2	2.0	.0	1.5	.5	1.3	.0
NE	.1	.8	.0	.0	.0	.0		.9	5.5		1.1	2.4	1.3	.0	.8	.3	.1	.9
E	.1	.5	.2	.0	.0	.0		.8	7.4		.5	.7	1.9	1.0	.7	.3	.5	.7
SE	.6	12.1	18.7	2.9	.1	.0		34.3	13.1		28.5	29.2	35.4	53.6	37.5	30.3	33.1	43.3
S	3.0	21.3	12.7	2.5	.1	.0		39.6	10.4		44.3	39.6	41.4	30.6	38.2	34.3	38.2	42.0
SW	2.4	9.5	1.8	.0	.0	.0		13.7	6.8		14.7	15.5	10.9	12.9	11.7	19.6	15.9	8.0
W	1.3	2.2	.2	.0	.0	.0		3.7	5.1		4.5	3.6	1.8	.0	3.6	7.1	4.3	3.0
NW	.3	1.2	.1	.0	.0	.0		1.6	5.7		1.1	2.8	.8	1.0	1.2	4.5	1.7	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0		4.7	5.2	4.4	1.0	4.8	3.2	4.8	1.7
TOT OBS	275	1057	739	119	4	0	2194		10.0		424	210	383	103	417	189	353	115
TOT PCT	12.5	48.2	33.7	5.4	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.0	.1	.0	.0	.0		1.1	4.0	.8	1.6	1.2	1.0
NE	.7	.1	.0	.0	.0		.9	5.5	1.5	1.0	.7	.3
E	.5	.3	.0	.0	.0		.8	7.4	.6	1.7	.5	.5
SE	3.9	22.0	7.3	1.1	.0		34.3	13.1	28.7	39.2	35.3	35.6
S	12.3	20.7	5.7	.9	.0		39.6	10.4	42.8	39.1	37.0	39.1
SW	8.0	5.5	.3	.0	.0		13.7	6.8	14.9	11.3	14.2	14.0
W	2.7	1.0	.0	.0	.0		3.7	5.1	4.2	1.4	4.7	4.0
NW	1.2	.4	.0	.0	.0		1.6	5.7	1.6	.9	2.2	1.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	4.9	3.7	4.3	4.1
TOT OBS	759	1099	293	43	0	2194		10.0	634	486	606	468
TOT PCT	34.6	50.1	13.4	2.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.9	8.2	47.2	33.0	6.3	.5	.0	10.2	100.0	634
06009	3.7	10.5	46.3	34.2	5.3	.0	.0	10.0	100.0	486
12015	4.3	7.1	51.5	31.8	5.1	.2	.0	9.7	100.0	606
18021	4.1	7.5	47.2	36.5	4.7	.0	.0	10.1	100.0	468
TOT	94	181	1057	739	119	4	0	10.0		2194
PCT	4.3	8.2	48.2	33.7	5.4	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.2	.6		7.7
NE	.0	.0	.1	.3		7.7
E	.0	.0	.2	.7		7.7
SE	1.3	1.4	9.9	31.3		7.3
S	1.7	1.2	6.1	30.3		7.3
SW	.6	.6	1.8	6.4		6.9
W	.2	.0	.3	1.7		7.1
NW	.1	.0	.1	.4		6.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.1	1.8		5.7
TOT OBS	45	31	183	716	975	7.2
TOT PCT	4.6	3.2	18.8	73.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.2	
NE	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	
E	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.0	
SE	.0	.1	.8	4.6	18.1	10.3	4.7	.8	*	.0	4.4	
S	.1	.0	.8	7.0	16.9	7.1	2.2	.3	.4	.2	4.4	
SW	.0	.0	.0	1.2	3.9	1.5	1.0	*	.0	.2	1.5	
W	.0	.0	.0	.2	.9	.8	.1	.0	.0	.0	.3	
NW	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.5	.6	.6	.1	.0	.0	.0	.8	
TOT OBS	1	1	16	137	399	203	82	11	4	5	116	975
TOT PCT	.1	.1	1.6	14.1	40.9	20.8	8.4	1.1	.4	.5	11.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	8.6	10.6	10.7	10.7	10.7	10.7	10.7	10.7
= OR >2000	22.3	31.1	31.6	31.6	31.6	31.6	31.6	31.6
= OR >1000	53.2	70.7	72.5	72.5	72.5	72.5	72.5	72.5
= OR >600	62.9	84.0	86.2	86.4	86.4	86.4	86.4	86.4
= OR >300	64.1	85.5	87.8	88.0	88.0	88.0	88.0	88.0
= OR >150	64.1	85.6	87.9	88.1	88.1	88.1	88.1	88.1
= OR > 0	64.1	85.7	88.0	88.2	88.2	88.2	88.2	88.2
TOTAL	631	844	867	869	869	869	869	869

TOTAL NUMBER OF OBS: 985

PCT FREQ NH < 5/8: 11.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	2.9	1.5	1.5	2.8	2.5	2.9	6.3	12.7	66.6	.1	1059

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.3	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.2	.5	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.1	.0	.1	.0	.1	.0	.0	.3	
	TOT %	.0	.0	*	.1	.1	.1	.0	.1	.0	.0	.4	
2<5	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.3	
	NO PCP	.2	.1	.0	.4	.8	.3	.1	*	.0	.2	2.0	
	TOT %	.2	.1	.0	.5	.8	.4	.1	*	.0	.3	2.4	
5<10	PCP	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	.5	*	.0	8.5	10.6	3.0	1.5	.9	.0	1.6	26.6	
	TOT %	.5	*	.0	8.7	10.9	3.1	1.5	.9	.0	1.6	27.2	
10+	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.2	.8	30.6	27.7	7.5	1.2	.0	.0	1.1	69.2	
	TOT %	.1	.2	.8	30.7	27.8	7.5	1.2	.0	.0	1.1	69.5	
TOT OBS													1186
TOT PCT		.8	.3	.8	40.1	39.7	11.2	2.8	1.1	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	.3	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.2	.5	
1<2	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.2	.4	.0	.1	.1	.0	.0	.6	
	11-21	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.1	.2	.5	.1	.1	.0	.1	1.0	
2<5	0-3	.1	.0	.0	.0	.3	.1	.0	.0	.0	.3	.8	
	4-10	.1	.1	*	.2	.4	.1	.1	*	.0		1.1	
	11-21	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.1	*	.5	1.0	.4	.1	*	.0	.3	2.6	
5<10	0-3	.2	.0	.0	.3	1.3	.9	.8	.2	.0	1.7	5.4	
	4-10	.3	*	.0	3.0	5.7	2.0	.5	.3	.0		11.8	
	11-21	.0	.0	.0	5.1	4.1	.3	.1	.2	.0	.0	9.8	
	22+	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.4	*	.0	9.1	11.1	3.1	1.4	.8	.0	1.7	27.7	
10+	0-3	.1	.1	.0	.5	1.8	.5	.4	.0	.0	1.0	4.4	
	4-10	.1	.1	.5	10.6	17.3	5.6	1.0	.0	.0	.0	35.1	
	11-21	.0	*	.3	16.9	7.7	.9	.0	.0	.0	.0	25.8	
	22+	.0	.0	.0	2.3	.6	.0	.0	.0	.0	.0	2.9	
	TOT %	.1	.2	.7	30.3	27.5	7.0	1.3	.0	.0	1.0	68.2	
TOT OBS													1328
TOT PCT		.8	.3	.8	40.0	39.8	11.1	3.0	1.0	.0	3.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.5	.0	1.5	13.6	42.2	20.4	7.8	.0	.0	.0	85.9	14.1	206
06009	.0	.4	1.4	16.6	44.0	19.1	10.1	.7	.4	.7	93.5	6.5	277
12015	.0	.0	1.6	11.0	37.0	22.4	8.7	1.6	1.2	1.2	84.6	15.4	254
18021	.0	.0	2.0	13.8	39.5	21.7	7.5	2.0	.0	.0	86.6	13.4	253
TOT	1	1	16	137	403	207	85	11	4	5	870	120	990
PCT	.1	.1	1.6	13.8	40.7	20.9	8.6	1.1	.4	.5	87.9	12.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.3	.0	3.5	29.2	67.0	318
06009	.0	.6	1.7	2.6	25.9	69.2	347
12015	.0	.6	1.7	2.0	30.6	65.2	356
18021	.0	.3	.3	2.8	25.8	70.9	326
TOT	0	6	13	36	376	916	1347
PCT	.0	.4	1.0	2.7	27.9	68.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.5	1.9	18.4	67.5	14.1	206
06009	.0	1.8	20.4	73.7	5.8	274
12015	.0	1.6	14.7	71.0	14.3	252
18021	.0	2.0	17.4	69.6	13.0	253
TOT	1	18	175	696	114	905
PCT	.1	1.8	17.8	70.7	11.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.1	.2	.1	.0	4	.4
70/74	.0	.0	.0	.2	.7	2.8	2.4	.6	67	6.8
65/69	.0	.0	.0	.3	4.3	17.2	14.9	4.6	406	41.2
60/64	.0	.0	.0	.0	1.9	15.7	23.5	5.8	462	46.9
55/59	.0	.0	.0	.0	.0	.7	1.7	2.2	46	4.7
TOTAL	0	0	0	5	69	361	420	130	985	100.0
PCT	.0	.0	.0	.5	7.0	36.6	42.6	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0
70/74	.1	.1	.0	.8	3.4	1.3	.2	.0	.0	.9
65/69	.3	.2	.6	15.7	14.6	5.6	2.0	.5	.0	1.7
60/64	.4	.2	.3	20.8	17.6	4.5	1.2	.6	.0	1.2
55/59	.2	.0	.0	.7	2.8	.7	.1	.1	.0	.2
TOTAL	1.0	.4	.9	38.1	38.6	12.2	3.4	1.2	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	70	69	64	58	56	52	63.4	636
06009	72	70	69	63	58	56	54	63.5	483
12015	82	75	72	66	60	57	55	65.9	595
18021	81	71	70	64	59	57	54	64.4	471
TOT	82	73	70	64	59	57	52	64.3	2185

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.4	29.4	49.2	17.1	82	252		
06009	.0	.0	6.3	33.3	42.5	17.9	82	252		
12015	.0	1.6	11.7	43.4	35.5	7.8	78	256		
18021	.0	.4	5.5	40.3	42.8	11.0	80	236		
TOT	0	5	70	364	423	134	80	996		

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1899-1975

AUGUST

AREA 0015 LOBITO
13.75 8.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.2	.0	.0	.0	2	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
7/8	.0	.0	.0	.1	.3	.3	.0	.0	.0	7	.0	.6
6	.0	.0	.0	.1	.2	.2	.3	.0	.0	8	.0	.7
5	.0	.0	.0	.4	.4	.0	.2	.0	.0	10	.0	.9
4	.0	.0	.0	.7	.8	.5	.2	.0	.0	24	.0	2.2
3	.0	.0	.0	.4	1.2	.4	.2	.0	.0	23	.0	2.1
2	.0	.0	.0	1.0	1.5	1.1	.1	.0	.0	40	.0	3.6
1	.0	.0	.4	3.0	2.5	1.4	.1	.0	.2	83	.0	7.5
0	.0	.0	1.1	5.9	6.2	2.0	.5	.0	.0	172	.3	15.3
-1	.0	.0	1.5	8.3	7.5	1.8	.0	.0	.0	210	.0	19.0
-2	.0	.0	1.8	8.3	5.5	1.6	.0	.0	.0	191	.1	17.2
-3	.0	.2	1.7	5.1	5.4	1.3	.1	.0	.0	152	.1	13.7
-4	.0	.1	.5	3.4	2.4	.4	.0	.0	.0	74	.5	6.3
-5	.0	.1	.6	2.4	1.0	.0	.0	.0	.0	46	.1	4.1
-6	.0	.0	.2	1.2	.3	.0	.0	.0	.0	18	.0	1.6
-7/-8	.0	.2	.5	.8	.5	.0	.0	.0	.0	23	.0	2.1
-9/-10	.0	.0	.2	.6	.0	.0	.0	.0	.0	9	.0	.8
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
-14/-16	.1	.3	.1	.1	.0	.0	.0	.0	.0	6	.0	.5
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	10	96	460	393	123	18	0	2	1103	11	1092
PCT	.1	.9	8.7	41.7	35.6	11.2	1.6	.0	.2	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	<1	.4	1.7	.0	.0	.0	.0	.2
1-2	.0	.1	.0	.0	.0	.0	.1	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.4	.0	.0	.0	.0	.6	TOT PCT	.5	14.9	26.1	3.0	.0	.0	44.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.4	1.7	.0	.0	.0	.0	2.2
1-2	.0	.2	.2	.0	.0	.0	.4	1-2	.0	8.5	4.4	.0	.0	.0	12.9
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	3.5	10.9	.1	.0	.0	14.5
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	1.1	7.0	1.1	.0	.0	9.2
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	2.4	1.4	.0	.0	3.8
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	1.1	.1	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.4	.1	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.2	.0	.0	.0	.4	TOT PCT	.5	14.9	26.1	3.0	.0	.0	44.5

PERIOD: (OVER-ALL) 1963-1975

AUGUST

TABLE 18 (CONT)

AREA 0015 LOBITO
13.75 8.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	3.3	.4	.0	.0	.0	5.2	.9	1.3	*	.0	.0	.0	2.3
1-2	.1	14.6	1.8	.0	.0	.0	16.5	.1	4.5	.3	.0	.0	.0	4.9
3-4	.0	4.1	6.6	.5	.0	.0	11.2	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.8	2.5	.5	.0	.0	3.9	.0	.3	.2	.0	.0	.0	.5
7	.0	.4	1.1	.0	.0	.0	1.5	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.1	.4	.1	.0	.0	.7	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	23.3	13.2	1.2	.0	.0	39.2	1.0	6.9	1.1	.0	.0	.0	9.1

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.9	.5	.0	.0	.0	.0	1.4	*	*	.0	.0	.0	.0	.1	97.1
1-2	.2	.5	.0	.0	.0	.0	.8	*	.1	.4	.0	.0	.0	.6	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	1.2	.0	.0	.0	.0	2.4	.1	.3	.4	.0	.0	.0	.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.9	7.3	.4	.0	.0	.0	14.6	728
1-2	.5	28.6	7.1	.0	.0	.0	36.3	
3-4	.0	8.5	17.9	.5	.0	.0	26.9	
5-6	.0	2.3	9.8	1.6	.0	.0	13.7	
7	.0	.5	3.7	1.4	.0	.0	5.6	
8-9	.0	.1	1.5	.3	.0	.0	1.9	
10-11	.0	.0	.5	.1	.0	.0	.7	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	47.4	41.1	4.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	11.5	7.7	4.0	1.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	261	3
6-7	.0	2.0	5.6	7.4	5.0	1.5	.8	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	5
8-9	.0	1.2	2.6	3.2	4.4	2.9	2.6	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	7
10-11	.0	.7	1.4	3.5	1.2	1.2	1.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	6
12-13	.0	.0	.4	.9	.7	.7	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
>13	.0	.0	.0	.4	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
INDET	.5	2.1	2.5	3.4	3.2	3.1	.8	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	146	6
TOTAL	31	159	186	209	151	97	57	13	10	3	0	1	0	0	0	0	0	0	0	917	5
PCT	3.4	17.3	20.3	22.8	16.5	10.6	6.2	1.4	1.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1894-1975AREA 0015 LOBITO
13.85 7.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	9.3	.0	.0	.0	.0	9.3	9.3	.0	.0	.0	.0	.0	81.4
SE	.3	.8	2.6	.0	.0	.0	.0	3.7	.8	.0	.0	.0	.3	.0	95.3
S	.5	1.3	1.2	.0	.0	.0	.0	3.0	1.5	.3	1.4	.3	.3	.0	93.3
SW	.0	.2	.0	.0	.0	.0	.0	.2	.8	.0	1.8	.8	.0	.0	96.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.4	.0	.0	.0	.0	5.4	.0	.0	8.1	.0	.0	.0	86.5
TOT PCT	.3	.8	2.0	.0	.0	.0	.0	3.1	1.0	.1	1.0	.2	.2	.0	94.3
TOT OBS:	967														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
00003	.0	1.2	3.3	.0	.0	.0	.0	4.5	2.1	.4	.8	.0	.0	.0	92.1
06009	.0	.4	3.6	.0	.0	.0	.0	4.0	1.2	.0	3.2	.0	.4	.0	90.7
12015	.7	.7	.0	.0	.0	.0	.0	1.5	.4	.0	.4	.0	.4	.0	97.4
18021	.4	.8	.8	.0	.0	.0	.0	2.1	.8	.0	.0	.4	.0	.0	96.7
TOT PCT	.3	.8	1.9	.0	.0	.0	.0	3.0	1.1	.1	1.1	.2	.2	.0	94.3
TOT OBS:	999														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	.6	.3	.0	.0	.0	.0	.9	3.1	.9	.0	1.7	.7	1.1	.9	.7	.0	
NE	.4	.5	.0	.0	.0	.0	1.0	3.6	.4	.9	1.9	1.1	1.6	.6	.4	.0	
E	.1	.6	.3	.0	.0	.0	.9	8.6	.6	1.4	2.0	1.6	.9	.3	.3	.0	
SE	1.0	12.9	21.1	2.6	.1	.0	37.7	12.9	35.3	34.2	37.5	54.8	37.1	38.5	31.9	49.6	
S	3.1	17.8	13.0	1.9	.3	.0	36.1	10.7	37.3	38.6	36.1	28.2	34.2	37.0	37.0	38.4	
SW	2.0	9.9	2.5	.2	.0	.0	14.6	7.7	16.7	18.5	12.1	7.6	14.2	14.2	18.8	6.0	
W	1.4	2.7	.1	.0	.0	.0	4.2	4.5	4.3	2.9	4.1	3.2	3.4	5.8	6.2	2.5	
NW	.7	.8	.0	.0	.0	.0	1.5	3.9	1.1	1.1	.8	.9	2.3	1.0	1.4	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.5	2.3	3.7	1.8	5.2	1.8	3.2	.0	
TOT OBS	239	859	699	88	9	0	1894		373	174	295	109	385	169	277	112	
TOT PCT	12.6	45.4	36.9	4.6	.5	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.8	.1	.0	.0	.0	.0	.9	3.1	.6	1.4	1.0	.5	
NE	.9	.0	.0	.0	.0	.0	1.0	3.6	.5	1.7	1.3	.3	
E	.5	.3	.1	.0	.0	.0	.9	8.6	.9	1.9	.7	.2	
SE	5.4	23.0	8.5	.8	.0		37.7	12.9	34.9	42.2	37.5	37.0	
S	10.2	20.2	5.1	.6	.0		36.1	10.7	37.7	34.0	35.0	37.4	
SW	6.8	7.3	.4	.1	.0		14.6	7.7	17.3	10.9	14.2	15.1	
W	3.6	.6	.0	.0	.0		4.2	4.5	3.8	3.8	4.2	5.1	
NW	1.4	.1	.0	.0	.0		1.5	3.9	1.1	.8	1.9	2.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.1	3.2	4.2	2.3	
TOT OBS	622	977	268	27	0	1894		10.2	547	404	554	389	
TOT PCT	32.8	51.6	14.1	1.4	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.1	9.3	45.2	37.5	4.8	1.2	.0	10.2	100.0	547
06009	3.2	7.9	47.0	36.9	4.0	1.0	.0	10.2	100.0	404
12015	4.2	10.3	44.4	35.7	4.7	.7	.0	10.1	100.0	554
18021	2.3	9.5	45.2	37.8	5.1	.0	.0	10.2	100.0	389
TOT	62	177	859	699	88	9	0	10.2		1894
PCT	3.3	9.3	45.4	36.9	4.6	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.1	.5	7.8	
NE	.0	.0	.0	.3	8.0	
E	.0	.0	.2	.7	7.6	
SE	.7	1.3	8.8	30.7	7.4	
S	1.9	.9	8.1	24.8	7.1	
SW	1.9	.5	2.4	8.1	6.3	
W	.5	.0	.2	2.0	6.6	
NW	.0	.4	.2	.9	6.4	
VAR	.0	.0	.0	.0	.0	
CALM	.6	.0	1.1	2.4	6.4	
TOT OBS	45	25	173	576	819	7.1
TOT PCT	5.5	3.1	21.1	70.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	
E	.1	.0	.0	.0	.1	.5	.1	.0	.0	.0	.1	
SE	.1	.0	.5	6.3	15.5	11.5	3.1	.8	.2	.0	3.3	
S	.1	.0	.6	8.7	11.0	7.4	2.7	.8	.1	.0	4.3	
SW	.1	.0	.1	1.8	3.3	1.8	.6	.3	.1	.6	4.1	
W	.0	.1	.0	.2	1.3	.1	.2	.0	.1	.0	.6	
NW	.0	.0	.0	.2	.5	.1	.0	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.9	1.1	.5	.0	.0	.1	.1	1.1	
TOT OBS	7	1	10	151	273	179	56	15	6	115	819	
TOT PCT	.9	.1	1.2	18.4	33.3	21.9	6.8	1.8	.7	.7	14.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	2.4	3.2	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	8.7	10.2	10.3	10.3	10.3	10.3	10.3	10.3
= OR >2000	25.4	31.8	32.5	32.6	32.6	32.6	32.6	32.6
= OR >1000	52.2	64.3	65.4	65.6	65.6	65.6	65.6	65.6
= OR >600	67.4	82.2	83.6	83.9	83.9	83.9	83.9	83.9
= OR >300	68.0	83.2	84.6	84.9	85.1	85.1	85.1	85.1
= OR >150	68.0	83.3	84.7	85.1	85.2	85.2	85.2	85.2
= OR >0	68.2	83.6	85.4	85.8	85.9	86.0	86.0	86.0
TOTAL	575	705	720	723	724	725	725	725

TOTAL NUMBER OF OBS: 843

PCT FREQ NH <5/8: 14.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.3	2.3	2.2	2.9	3.2	5.9	6.6	12.0	60.9	.8	883

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	.3
2<5	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	.0	.4	.8	.3	.1	*	.0	.2	1.8	1.8
	TOT %	.0	.0	.0	.7	1.1	.3	.1	*	.0	.2	2.4	2.4
5<10	PCP	.0	.0	.1	.6	.1	.0	.0	.2	.0	.0	1.0	1.0
	NO PCP	.2	.1	.0	5.5	6.9	2.6	.9	*	.0	.9	17.2	17.2
	TOT %	.2	.1	.1	6.1	7.0	2.6	.9	.2	.0	.9	18.2	18.2
10+	PCP	.0	.0	.0	.3	.6	*	.0	.0	.0	.2	1.1	1.1
	NO PCP	.5	.2	1.0	33.0	26.6	9.9	2.7	1.4	.0	2.5	77.7	77.7
	TOT %	.5	.2	1.0	33.3	27.2	9.9	2.7	1.4	.0	2.7	78.9	78.9
TOT OBS													966
TOT PCT		.7	.3	1.1	40.3	35.4	13.0	3.7	1.7	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.1	.0	.1	.0	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	*	*	.1	*	.0	.3	.4	.4
	4-10	.0	.0	.0	.3	.6	.4	.0	.0	.0	.0	1.2	1.2
	11-21	.0	.0	.0	.4	.4	.2	.0	.0	.0	.0	1.1	1.1
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.7	1.2	.7	.1	*	.0	.3	2.9	2.9
5<10	0-3	.1	*	.0	.6	.4	.4	.3	.1	.0	.9	2.8	2.8
	4-10	.1	.1	.1	1.9	3.1	2.3	.6	.1	.0	.8	8.2	8.2
	11-21	.0	.0	.0	3.9	3.3	.3	.0	.0	.0	.7	7.6	7.6
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2	.2
	TOT %	.2	.1	.1	6.5	7.0	3.0	.9	.2	.0	.9	18.8	18.8
10+	0-3	.4	*	.1	.6	2.4	1.7	.5	.8	.0	2.5	9.2	9.2
	4-10	.1	.1	.4	10.7	14.5	6.0	1.9	.4	.0	.0	34.1	34.1
	11-21	.0	.0	.5	20.6	8.8	1.5	.0	.0	.0	.0	31.3	31.3
	22+	.0	.0	.0	2.6	.6	*	.0	.0	.0	.0	3.2	3.2
	TOT %	.5	.1	.9	34.4	26.3	9.2	2.5	1.3	.0	2.5	77.8	77.8
TOT OBS													1142
TOT PCT		.7	.3	1.1	41.8	34.7	12.9	3.5	1.5	.0	3.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.6	.0	.5	19.1	35.1	21.3	8.0	2.1	1.1	.0	88.8	11.2	188
06009	1.8	.5	3.6	20.5	30.9	25.0	8.6	.9	.5	1.4	93.6	6.4	220
12015	.4	.0	.4	14.5	33.3	17.9	5.6	3.0	1.3	1.3	77.8	22.2	234
18021	.0	.0	.0	18.8	31.9	25.1	5.8	1.0	.0	.5	83.1	16.9	207
TOT	8	1	10	154	278	189	59	15	6	7	727	122	849
PCT	.9	.1	1.2	18.1	32.7	22.3	6.9	1.8	.7	.8	85.6	14.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM), BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	4.0	19.1	76.9	299
06009	.4	.4	.7	2.8	23.5	72.2	281
12015	.0	.0	.3	1.9	16.7	81.1	318
18021	.0	.0	.4	2.9	17.0	79.7	276
TOT	1	1	4	34	223	911	1174
PCT	.1	.1	.3	2.9	19.0	77.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.6	2.2	22.6	67.2	10.2	186
06009	1.4	5.5	27.5	66.5	6.0	218
12015	.4	.9	16.4	62.1	21.6	232
18021	.0	.0	21.3	61.8	16.9	207
TOT	7	18	184	542	117	843
PCT	.8	2.1	21.8	64.3	13.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.1	.3	.0	3	.4
70/74	.0	.0	.0	.0	.8	3.7	6.0	1.6	92	12.0
65/69	.0	.0	.0	.3	2.6	14.1	13.1	6.0	276	36.1
60/64	.0	.0	.0	.1	2.4	13.9	23.7	7.5	363	47.5
55/59	.0	.0	.0	.0	.1	.3	1.6	2.0	30	3.9
TOTAL	0	0	0	3	45	245	341	130	764	100.0
PCT	.0	.0	.0	.4	5.9	32.1	44.6	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.1	.0	.0	.0	.0
.3	.0	.1	1.7	4.5	2.3	1.4	.7	.0	1.2
.4	.2	.2	15.5	12.0	4.3	1.5	.4	.0	1.7
.1	.0	.5	25.5	16.2	3.8	.7	.4	.0	.4
.0	.0	.1	1.1	2.3	.4	.0	.0	.0	.1
.8	.2	.9	43.8	35.0	10.9	3.6	1.4	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	72	70	64	59	57	55	64.0	549
06009	82	75	70	63	59	56	54	63.9	403
12015	79	78	74	65	61	57	51	66.5	551
18021	82	72	71	64	60	58	55	64.8	398
TOT	82	75	72	64	59	57	51	64.9	1901

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.5	23.0	48.5	24.0	84	200
06009	.0	.0	3.5	28.4	44.8	23.4	83	201
12015	.0	1.5	11.6	40.9	37.4	8.6	78	198
18021	.0	.0	3.7	37.0	48.7	10.6	81	189
TOT	0	3	46	254	353	132	82	788

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	.1	.0	3	.0	.3
7/8	.0	.0	.0	.0	.5	.5	.3	.1	.0	14	.0	1.5
6	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
5	.0	.0	.0	.8	1.0	.6	.4	.1	.0	27	.0	2.9
4	.0	.0	.0	.8	.8	.4	.1	.0	.1	20	.0	2.2
3	.0	.0	.0	1.2	.8	.4	.1	.0	.0	23	.0	2.5
2	.0	.0	.4	2.3	3.8	.8	.4	.0	.2	73	.1	7.8
1	.0	.0	.0	2.8	2.8	1.6	.5	.0	.0	72	.0	7.8
0	.0	.0	.5	10.0	4.4	1.7	.4	.0	.0	158	.3	16.8
-1	.0	.1	1.4	9.4	5.5	3.1	.1	.0	.1	183	.0	19.8
-2	.0	.1	1.2	7.8	5.5	2.8	.1	.1	.0	163	.3	17.3
-3	.0	.1	1.1	4.0	2.8	1.0	.0	.0	.0	83	.1	8.9
-4	.0	.0	1.0	2.2	1.9	.5	.0	.0	.0	52	.0	5.0
-5	.0	.0	.5	1.1	.5	.4	.0	.0	.0	24	.1	2.5
-6	.0	.0	.1	.8	.2	.0	.0	.0	.0	10	.0	1.1
-7/-8	.0	.1	.2	.2	.1	.0	.0	.0	.0	6	.0	.6
-9/-10	.0	.0	.0	.2	.0	.1	.1	.0	.0	4	.0	.4
-11/-13	.1	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.3
-14/-16	.0	.1	.0	.0	.1	.0	.0	.0	.0	2	.0	.2
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	5	62	401	285	134	26	5	4	924	9	915
PCT	.2	.5	6.7	43.4	30.8	14.5	2.8	.5	.4	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
1-2	.1	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.2	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	1.9	.5	.0	.0	.0	2.8
1-2	.0	.3	.0	.0	.0	.0	.3	.3	9.2	3.5	.0	.0	.0	13.0
3-4	.0	.1	.2	.0	.0	.0	.3	.0	2.9	10.1	.3	.0	.0	13.3
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.5	6.9	.0	.0	.0	7.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.3	.0	.0	.0	1.0	.7	14.4	24.3	1.0	.0	.0	40.4

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0015 LOBITO
13.85 7.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.8	.4	.0	.0	.0	3.2	.7	1.6	.2	.0	.0	.0	2.4
1-2	2.3	13.4	1.4	.0	.0	.0	17.2	.8	6.1	.5	.0	.0	.0	7.4
3-4	.1	3.9	6.9	.0	.0	.0	10.9	.2	.7	.9	.0	.0	.0	1.7
5-6	.0	.9	2.5	.0	.0	.0	3.5	.0	.2	.6	.0	.0	.0	.8
7	.0	.0	1.7	.3	.0	.0	2.0	.0	.2	.2	.0	.0	.0	.3
8-9	.0	.0	.3	.5	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.5	20.0	13.2	.8	.0	.0	37.6	1.7	8.6	2.3	.0	.0	.0	12.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.0	.0	.0	.0	.8	.2	.5	.0	.0	.0	.0	.2	
1-2	.2	1.3	.0	.0	.0	.0	1.6	.5	.0	.0	.0	.0	.0	.5	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.2	.0	.0	.0	.0	2.6	.2	.5	.0	.0	.0	.0	.7	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.2	6.3	1.0	.0	.0	.0	15.5	
1-2	3.9	30.6	5.4	.0	.0	.0	39.9	
3-4	.3	7.8	17.8	.3	.0	.0	26.1	
5-6	.0	1.5	10.0	.0	.0	.0	11.5	
7	.0	.1	4.6	.3	.0	.0	5.1	
8-9	.0	.0	.7	.4	.0	.0	1.2	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	46.3	39.6	1.8	.0	.0	100.0	670

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	8.8	10.8	3.3	1.7	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	220
6-7	.0	1.2	7.2	8.9	4.5	2.1	.7	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	206
8-9	.0	.2	2.5	4.8	4.7	1.9	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132
10-11	.0	2.4	1.9	.5	1.2	1.2	.5	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
12-13	.0	.0	.9	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15
>13	.0	.0	.0	.7	.7	.1	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
INDET	4.7	4.0	2.0	4.3	1.5	.5	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146
TOTAL	54	134	203	184	123	48	37	11	13	0	0	0	0	0	0	0	0	0	0	0	807
PCT	6.7	16.6	25.2	22.8	15.2	5.9	4.6	1.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1866-1975

OCTOBER

AREA 0015 LOBITO
19.85 8.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WU PCPN	SMOKE HAZE	SPRAY BLWG SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.6	.0	.0	.0	70.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.6	.0	.0	.0	82.4
E	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	16.7	.0	.0	.0	76.2
SE	.3	.6	1.5	.0	.0	.0	.0	2.1	.9	.0	.3	.0	.0	.0	96.7
S	.0	.1	.5	.0	.0	.0	.0	.6	.4	.9	2.1	.0	2.3	.0	93.6
SW	.0	.0	1.6	.0	.0	.0	.0	1.6	.3	.0	.7	.0	2.3	.0	95.1
W	.0	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	97.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	95.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	7.7	.0	.0	.0	.0	7.7	7.7	.0	7.7	.0	.0	.0	76.9
TOT PCT	.1	.3	1.2	.0	.0	.0	.0	1.4	.6	.4	1.7	.0	1.4	.0	94.4
TOT OBS:	1181														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WU PCPN	SMOKE HAZE	SPRAY BLWG SNOW	
00003	.0	.0	1.8	.0	.0	.0	.0	1.8	.6	1.5	2.4	.0	.9	.0	92.7
06009	.0	.3	1.7	.0	.0	.0	.0	2.0	1.0	.0	2.3	.0	2.0	.0	92.7
12015	.0	.3	.3	.0	.0	.0	.0	.7	.7	.0	1.6	.0	2.0	.0	95.1
18021	.4	.4	1.4	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.1	.0	97.1
TOT PCT	.1	.2	1.3	.0	.0	.0	.0	1.6	.6	.4	1.7	.0	1.5	.0	94.3
TOT OBS:	1212														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	.4	*	.0	.0	.0		1.0	4.1		.6	1.4	2.0	.0	1.5	1.2	.4	.0
NE	.1	.3	*	.0	.0	.0		.4	4.9		.4	.7	.8	.9	.5	.0	.0	.0
E	.4	.3	.1	.0	.0	.0		.8	5.9		.9	.7	1.9	1.7	.7	.2	.0	.0
SE	.7	13.4	14.8	1.8	.1	.0		30.7	12.2		26.5	24.9	30.2	43.5	34.2	32.1	27.5	41.7
S	2.6	22.5	16.4	2.5	.1	.0		44.0	11.2		45.8	45.5	43.2	45.2	40.4	41.8	45.6	47.4
SW	1.3	11.5	3.5	.2	.0	.0		16.5	8.1		19.3	20.8	17.2	7.0	14.9	14.3	18.7	7.9
W	.8	2.5	.5	*	.0	.0		3.8	6.5		3.6	3.2	2.4	.9	3.6	6.0	6.0	3.0
NW	.3	1.1	*	.0	.0	.0		1.5	5.8		1.1	2.5	1.4	.9	1.5	2.4	1.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		1.8	.5	.9	.0	2.9	2.0	.3	.0
TOT OBS	180	1150	782	101	4	0	2217		10.4		456	222	348	115	412	205	335	124
TOT PCT	8.1	51.9	35.3	4.6	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	.8	.2	.0	.0	.0		1.0	4.1	.8	1.5	1.4	.3		
NE	.3	.1	.0	.0	.0		.4	4.9	.5	.8	.3	.0		
E	.5	.2	.1	.0	.0		.8	5.9	.8	1.8	.6	.0		
SE	4.2	20.3	5.6	.6	.0		30.7	12.2	26.0	33.5	33.5	31.4		
S	10.0	25.8	7.3	.8	.0		44.0	11.2	45.7	43.7	40.8	46.1		
SW	7.1	8.7	.6	.0	.0		16.5	8.1	19.8	14.7	14.7	15.7		
W	2.2	1.5	.1	.0	.0		3.8	6.5	3.5	2.1	4.4	5.2		
NW	.9	.5	.0	.0	.0		1.5	5.8	1.5	1.2	1.8	1.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.3						1.3	.0	1.3	.6	2.6	.2		
TOT OBS	609	1272	305	31	0	2217		10.4	678	463	617	459		
TOT PCT	27.5	57.4	13.8	1.4	.0		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	1.3	6.0	51.3	35.7	5.3	.3	.0	10.7	100.0	678
06609	.6	7.3	50.8	36.9	4.1	.2	.0	10.4	100.0	463
12615	2.6	6.6	53.5	32.9	4.2	.2	.0	10.1	100.0	617
18621	.2	7.6	51.6	36.2	4.4	.0	.0	10.5	100.0	459
TOT	29	151	1150	782	101	4	0	10.4		2217
PCT	1.3	6.8	51.9	35.3	4.6	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.1	8.0	
NE	.0	.0	.1	.2	7.3	
E	.0	.0	.0	.6	8.0	
SE	.6	1.4	9.0	24.3	7.3	
S	2.2	3.0	10.8	27.7	6.9	
SW	1.1	1.4	3.7	8.1	6.6	
W	.4	.6	1.2	1.7	6.1	
NW	.1	.0	.5	.2	6.1	
VAR	.0	.0	.0	.0	.0	
CALM	.0	.0	.3	.5	7.3	
TOT OBS	42	60	241	597	940	
TOT PCT	4.5	6.4	25.6	63.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.2
.0	.3	2.5	14.8	9.5	3.2	.6	.1	.6	3.6	
.3	.2	2.5	19.5	8.8	1.7	.3	.0	.2	7.1	
.0	.1	2.0	5.4	1.8	.9	.3	.2	.0	3.6	
.0	.0	.0	.6	1.3	.3	.1	.1	.0	1.6	
.0	.0	.0	.0	.3	.1	.1	.1	.0	.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.3	.1	.0	.0	.0	.3	
.3	.2	6	100	396	195	56	14	3	8	157
.3	.2	.6	10.6	42.1	20.7	6.0	1.5	.3	.9	16.7
										940
										100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	# OR >10	# OR >5	# OR >2	# OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0
# OR >6500	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
# OR >5000	2.4	3.1	3.1	3.1	3.1	3.1	3.1	3.1
# OR >3500	7.3	9.1	9.1	9.1	9.1	9.1	9.1	9.1
# OR >2000	25.4	29.4	29.8	29.8	29.8	29.8	29.8	29.8
# OR >1000	63.1	71.1	71.7	71.7	71.7	71.7	71.7	71.7
# OR >600	71.4	81.8	82.4	82.4	82.4	82.4	82.4	82.4
# OR >300	71.8	82.4	83.0	83.0	83.0	83.0	83.0	83.0
# OR >150	71.8	82.5	83.2	83.2	83.2	83.2	83.2	83.2
# OR >0	71.8	82.5	83.2	83.2	83.2	83.4	83.6	83.6
TOTAL	686	788	795	795	795	796	798	798

TOTAL NUMBER OF OBS: 955

PCT FREQ NH <5/8: 16.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.8	2.2	3.4	3.9	4.1	4.2	8.1	15.5	55.6	.3	1004

PERIOD: (PRIMARY) 1923-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	*	.1	.1	.7	.0	.0	*	.0	.1	1.2	
	TOT %	.2	*	.1	.1	.7	.0	.0	*	.0	.1	1.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9	
2<5	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	*	.1	.3	.2	.1	.0	.0	.0	.1	.8	
	TOT %	.0	*	.1	.4	.2	.2	.0	.0	.0	.1	.9	
5<10	PCP	.0	.0	.1	*	.1	.1	.1	.0	.0	.0	.4	
	NO PCP	.3	.1	.2	3.3	12.2	5.0	1.2	.4	.0	.3	22.9	
	TOT %	.3	.1	.2	3.4	12.3	5.0	1.3	.4	.0	.3	23.3	
10+	PCP	.0	.0	.0	.5	.1	.1	.0	.0	.0	.1	.8	
	NO PCP	.1	.2	.5	26.3	32.1	10.1	2.1	.5	.0	.6	72.6	
	TOT %	.1	.2	.5	26.8	32.2	10.2	2.1	.5	.0	.7	73.4	
TOT OBS													1181
TOT PCT		.6	.4	.9	30.7	46.3	15.7	3.4	1.0	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.1	.1	.3	.0	.0	*	.0	.0	.6	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	*	.1	.1	.6	.0	.0	*	.0	.1	1.0	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.9	
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	*	.1	*	.1	.3	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.4	.1	*	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.1	.5	.2	.3	.0	.0	.0	.1	1.2	
5<10	0-3	.2	.0	.1	.1	.5	.6	.2	.2	.0	.2	2.1	
	4-10	*	.1	.1	1.5	4.2	3.2	.7	.2	.0	.0	9.9	
	11-21	.0	.0	.0	2.2	6.0	.9	.3	.0	.0	.0	9.4	
	22+	.0	.0	.0	.3	1.2	.1	.0	.0	.0	.0	1.7	
	TOT %	.2	.1	.2	4.1	12.0	4.8	1.2	.4	.0	.2	23.1	
10+	0-3	.0	*	.2	.3	2.0	.5	.1	.1	.0	.7	4.0	
	4-10	.1	.1	.1	12.6	17.6	7.3	1.6	.4	.0	.0	39.9	
	11-21	.1	*	.2	14.6	11.8	1.4	.1	.0	.0	.0	28.1	
	22+	.0	.0	.0	.9	.5	.1	.0	.0	.0	.0	1.5	
	TOT %	.1	.2	.4	28.5	32.0	9.3	1.8	.5	.0	.7	73.5	
TOT OBS													1370
TOT PCT		.6	.3	.8	33.1	45.5	14.7	3.0	.9	.0	1.1	100.0	

PERIOD: (PRIMARY) 1923-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.0	.8	10.5	40.8	20.6	5.5	2.1	.4	.8	82.4	17.6	238
06009	.4	.0	.4	11.4	45.1	20.8	6.1	.8	.0	.4	85.2	14.8	264
12015	.0	.8	.8	8.5	37.7	22.5	7.2	1.3	.8	1.3	80.9	19.1	236
18021	.0	.0	.4	11.9	42.5	18.6	4.9	4.0	.0	.9	83.2	16.8	226
TOT	3	2	6	102	401	199	57	19	3	8	800	164	964
PCT	.3	.2	.6	10.6	41.6	20.6	5.9	2.0	.3	.8	83.0	17.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	1.3	.5	.8	26.4	70.4	382
06009	.3	1.5	.3	2.1	19.0	76.9	337
12015	.0	1.1	1.9	1.4	22.2	73.3	360
18021	.0	.0	.6	.6	24.2	74.5	322
TOT	3	14	12	17	323	1032	1401
PCT	.2	1.0	.9	1.2	23.1	73.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	1.7	12.8	70.6	16.6	235
06009	.4	.8	13.7	71.8	14.5	262
12015	.0	1.7	11.1	70.6	18.3	235
18021	.0	.4	13.0	71.3	15.7	223
TOT	3	11	121	679	155	955
PCT	.3	1.2	12.7	71.1	16.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.2	.1	.0	4	.4
75/79	.0	.0	.0	.2	.5	1.7	1.7	.2	45	4.3
70/74	.0	.0	.0	.1	1.0	4.5	9.9	2.5	191	18.1
65/69	.0	.0	.0	.1	2.6	16.4	17.1	2.6	411	38.8
60/64	.0	.0	.0	.1	.7	9.1	18.5	4.9	352	33.3
55/59	.0	.0	.0	.0	.0	.1	2.5	2.6	55	5.2
TOTAL	0	0	0	5	51	339	527	136	1058	100.0
PCT	.0	.0	.0	.5	4.8	32.0	49.8	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.1	.0	.0	.0	.1
.0	.2	.2	.3	1.1	1.7	.5	.2	.0	.1
.1	.1	.3	2.2	4.9	7.1	2.4	.3	.0	.6
.2	.0	.1	16.0	18.1	3.4	.4	.2	.0	.4
.2	.0	.2	13.1	16.5	2.9	.1	.2	.0	.1
.2	.0	.1	.3	4.3	.2	.0	.0	.0	.1
.7	.4	.8	31.9	45.2	15.4	3.4	.9	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	75	73	64	59	57	54	65.3	690
06009	79	76	74	65	60	57	54	65.6	467
12015	84	80	77	68	61	60	55	68.4	615
18021	79	76	74	66	60	57	57	66.2	485
TOT	84	78	74	66	60	57	54	66.4	2237

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	1.3	23.6	56.5	18.3	84	301
06009	.0	.0	4.0	30.1	49.6	16.2	82	272
12015	.0	1.5	11.7	42.8	37.9	6.1	78	264
18021	.0	.0	2.9	31.7	55.6	9.9	82	243
TOT	0	5	53	343	540	139	81	1080

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.2	.0	.0	2	.1	.1
11/13	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.2	.0	.2	.0	.0	4	.0	.4
7/8	.0	.0	.0	.2	.4	.4	.0	.0	10	.0	.9
6	.0	.0	.0	.4	.3	.1	.1	.0	9	.0	.8
5	.0	.0	.0	.3	.1	.1	.3	.0	8	.0	.7
4	.0	.0	.0	.8	.4	.4	.3	.0	20	.1	1.7
3	.0	.0	.4	1.0	.5	.5	.2	.1	30	.0	2.7
2	.0	.1	1.6	2.6	1.3	.7	.2	.1	74	.0	6.6
1	.0	.6	2.1	3.4	1.2	1.4	.2	.1	102	.1	9.0
0	.2	1.9	5.0	3.8	1.8	1.5	.3	.0	162	.2	14.3
-1	.0	1.9	6.2	6.5	3.2	1.7	.3	.0	222	.4	19.4
-2	.1	1.7	5.3	7.8	2.5	2.0	.4	.0	223	.0	19.9
-3	.0	.6	2.6	4.0	2.9	.5	.0	.0	119	.3	10.3
-4	.0	.4	1.8	2.0	.7	.3	.0	.0	57	.1	5.0
-5	.1	.2	1.9	1.5	.4	.2	.0	.0	48	.1	4.2
-6	.0	.2	.6	.4	.0	.0	.0	.0	14	.1	1.2
-7/-8	.0	.2	.4	.5	.1	.0	.0	.0	13	.1	1.1
-9/-10	.0	.1	.0	.3	.0	.0	.0	.0	4	.0	.4
TOTAL	4		313		177		29		1122	16	1106
PCT	.4	7.8	27.9	35.6	15.8	9.8	2.6	.3	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.2	.1	1.5	.1	.0	.0	.0	1.7
1-2	.1	.0	.0	.0	.0	.0	.1	.2	7.5	2.8	.0	.0	.0	10.5
3-4	.0	.0	.3	.0	.0	.0	.3	.1	4.7	7.2	.5	.0	.0	12.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.2	.1	.0	.0	6.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.2	.1	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.1	.3	.0	.0	.0	.7	.4	15.1	17.5	.8	.3	.0	34.1

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0015 LOBITO
13.85 8.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	3.9	.0	.0	.0	.0		4.6	.2	1.2	.0	.0	.0	.0		1.4
1-2	1.9	14.4	1.8	.0	.0	.0		18.2	.6	8.0	.4	.0	.0	.0		9.0
3-4	.1	5.2	5.8	.2	.0	.0		11.4	.0	1.9	.8	.1	.0	.0		2.8
5-6	.0	1.3	5.6	.3	.0	.0		7.2	.0	.1	.3	.0	.0	.0		.3
7	.0	.1	2.6	.3	.0	.0		3.1	.0	.0	.1	.0	.0	.0		.1
8-9	.0	.0	.3	.1	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.7	25.0	16.5	1.4	.0	.0		45.6	.8	11.1	1.6	.1	.0	.0		13.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.4	.0	.0	.0	.0		.6	.2	.0	.0	.0	.0	.0		.2	
1-2	.1	2.4	.0	.0	.0	.0		2.5	.0	.3	.0	.0	.0	.0		.3	
3-4	.0	.5	.0	.0	.0	.0		.5	.0	.3	.0	.0	.0	.0		.3	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.3	.0	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.6	.0	.0	.0	.0		3.9	.2	.5	.0	.0	.0	.0		.7	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.7	7.1	.3	.0	.0	.0	10.1	
1-2	3.5	32.3	5.0	.0	.0	.0	40.8	
3-4	.3	12.5	14.0	.8	.0	.0	27.6	
5-6	.0	2.3	11.1	.4	.0	.0	13.7	
7	.0	.1	4.4	.5	.1	.0	5.3	
8-9	.0	.8	.5	.1	.0	.0	1.5	
10-11	.0	.0	.3	.0	.1	.0	.4	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	55.3	35.7	2.3	.3	.0	100.0	742

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	7.4	9.7	5.7	2.2	.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	4
6-7	.1	.9	7.9	9.2	5.7	3.2	1.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	265	5
8-9	.0	.5	2.0	6.6	3.7	3.6	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	6
10-11	.0	.7	1.3	2.5	1.1	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	5
12-13	.0	.0	.7	.5	.8	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
>13	.0	.0	.0	.5	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	1.3	2.4	4.7	3.5	.9	.5	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
TOTAL	30	109	240	261	132	86	38	15	5	0	0	0	0	0	0	0	0	0	0	916	5
PCT	3.3	11.9	26.2	28.5	14.4	9.4	4.1	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1895-1975

AREA 0015 LOBITO
13.65 8.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	30.8	.0	.0	.0	.0	.0	.0	30.8	30.8	30.8	.0	.0	.0	.0	38.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.7	.8	.0	.0	.0	.0	1.5	.1	.2	.1	.0	.3	.0	97.9
S	.0	.2	.9	.0	.0	.0	.0	1.1	.5	.3	.6	.2	1.5	.2	95.7
SW	.0	.4	.4	.0	.0	.0	.0	.9	.9	2.2	.5	.0	1.9	.0	93.6
W	1.5	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	98.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	9.5	4.8	.0	.0	.0	.0	85.7
TOT PCT	.2	.3	.7	.0	.0	.0	.0	1.2	.7	.8	.4	.1	1.1	.1	95.7
TOT OBS:	1172														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	.0	.3	1.0	.0	.0	.0	.0	1.3	.3	2.0	.0	.0	1.0	.3	95.0
06609	.3	.7	1.0	.0	.0	.0	.0	2.0	1.7	.3	.7	.3	.7	.0	94.6
12615	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	.7	.0	2.3	.0	96.3
18621	.3	.3	.0	.0	.0	.0	.0	.7	.7	.7	.7	.0	1.0	.0	96.2
TOT PCT	.2	.3	.7	.0	.0	.0	.0	1.2	.7	.8	.5	.1	1.3	.1	95.6
TOT OBS:	1192														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.3	.1	.0	.0	.0		.5	7.2		.5	1.5	.6	.0	.7	.3	.2	.0
NE	.1	.3	*	.0	.0	.0		.4	5.6		.4	.5	.9	.0	.5	.0	.1	.0
E	.3	.5	.1	.0	.0	.0		1.0	5.4		.7	2.0	1.4	1.4	1.0	.0	1.1	.0
SE	.7	10.8	12.1	1.4	*	.0		25.0	11.9		22.7	20.3	25.2	35.6	29.5	25.1	19.3	32.2
S	1.4	24.2	17.2	1.2	.2	.0		44.3	10.7		44.6	45.0	50.2	53.6	41.1	37.9	40.1	49.5
SW	.8	13.2	5.5	.1	.0	.0		19.6	9.1		22.5	23.6	15.9	6.8	16.1	21.9	25.9	15.3
W	1.3	4.4	.4	.0	.0	.0		6.1	6.2		6.0	3.2	2.9	.9	8.7	10.5	8.8	2.1
NW	.1	1.0	.1	.0	.0	.0		1.3	7.4		1.1	2.0	1.5	.0	.6	3.1	1.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		1.7	2.0	1.5	1.8	1.8	1.2	2.8	.9
TOT OBS	138	1128	733	55	6	0	2060		10.1		419	203	329	111	394	172	324	108
TOT PCT	6.7	54.8	35.6	2.7	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.3	.2	.1	.0	.0		.5	7.2	.8	.5	.6	.2
NE	.2	.1	*	.0	.0		.4	5.6	.4	.7	.4	.1
E	.6	.4	.0	.0	.0		1.0	5.4	1.1	1.4	.7	.8
SE	3.9	16.5	4.3	.3	.0		25.0	11.9	21.9	27.8	28.2	22.5
S	8.8	29.6	5.4	.5	.0		44.3	10.7	44.7	51.0	40.2	42.5
SW	5.8	12.7	1.1	.0	.0		19.6	9.1	22.9	13.6	17.9	23.3
W	3.6	2.5	*	.0	.0		6.1	6.2	5.1	2.4	9.2	7.1
NW	.6	.6	*	.0	.0		1.3	7.4	1.4	1.1	1.3	1.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.8	1.6	1.6	2.3
TOT OBS	527	1290	226	17	0	2060		10.1	622	440	566	432
TOT PCT	25.6	62.6	11.0	.8	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1895-1975

AREA 0015 LOBITO
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.8	3.9	54.2	36.7	3.4	.2	.0	10.5	100.0	622
06009	1.6	3.9	56.1	35.9	2.3	.2	.0	10.0	100.0	440
12015	1.6	6.7	53.4	36.0	2.1	.2	.0	9.8	100.0	566
18021	2.3	5.1	56.0	33.1	2.8	.7	.0	10.1	100.0	432
TOT	37	101	1128	733	55	6	0	10.1	100.0	2060
PCT	1.8	4.9	54.8	35.6	2.7	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.1	.0	.3		7.1
NE	.0	.0	.0	.2		7.5
E	.1	.3	.4	.5		6.0
SE	1.1	1.2	9.2	13.5		6.9
S	2.9	6.4	18.1	19.2		6.3
SW	2.6	3.2	7.3	5.9		5.6
W	1.1	1.3	1.9	1.1		4.8
NW	.0	.1	.2	.0		4.9
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.5	.9		6.3
TOT OBS	83	131	386	427	1027	6.2
TOT PCT	8.1	12.8	37.6	41.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.1	.3	.1	.0	.0	.0	.6	
.1	.0	.2	2.7	8.7	6.4	2.1	.4	.0	.0	4.4	
.2	.3	1.1	5.1	13.1	10.1	1.7	.8	.3	.4	13.6	
.0	.0	.2	1.6	4.7	2.8	.2	.4	.0	.2	8.7	
.1	.0	.1	.5	.9	.7	.2	.0	.0	.0	3.0	
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.4	.6	.0	.0	.0	.0	.5	
.4	.3	1.7	10.9	28.8	21.6	4.3	1.7	.3	.7	31.2	1027
.4	.3	1.7	10.6	28.0	21.0	4.2	1.7	.3	.7	31.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	2.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>3500	5.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7
>2000	24.2	27.5	27.6	27.7	27.7	27.7	27.7	27.7
>1000	49.9	55.5	55.7	55.8	55.8	55.8	55.8	55.8
>600	58.8	66.2	66.5	66.6	66.6	66.6	66.6	66.6
>300	59.6	67.8	68.1	68.2	68.2	68.2	68.2	68.2
>150	59.8	68.1	68.4	68.5	68.5	68.5	68.5	68.5
>0	60.0	68.5	68.8	68.9	68.9	68.9	68.9	68.9
TOTAL	623	711	714	715	715	715	715	715

TOTAL NUMBER OF OBS: 1038

PCT FREQ NH <5/8: 31.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
2.6	6.3	6.8	7.6	7.6	6.0	10.2	13.7	36.9	.2	1103

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1895-1975

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AREA 0015 LOBITO
13.65 8.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	*	.5	.2	.0	.0	.0	.0	.7	.7
	TOT %	.0	.1	.0	*	.5	.2	.0	.0	.0	.0	.8	.8
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.3	.3
5<10	PCP	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.4	.4
	NO PCP	.1	.0	.0	2.3	7.4	2.2	1.1	*	.0	.3	13.4	13.4
	TOT %	.1	.0	.0	2.4	7.7	2.3	1.1	*	.0	.3	13.8	13.8
10+	PCP	.0	.0	.0	.3	.2	.1	.1	.0	.0	.0	.7	.7
	NO PCP	.2	.2	1.1	21.7	38.1	16.7	4.6	.4	.0	1.5	84.4	84.4
	TOT %	.2	.2	1.1	21.9	38.3	16.7	4.7	.4	.0	1.5	85.1	85.1
TOT OBS													1172
TOT PCT		.3	.3	1.1	24.4	46.6	19.4	5.7	.4	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.1	.0	*	.4	.1	.0	.0	.0	.0	.7	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.4	.4
5<10	0-3	.1	.0	*	.1	.1	.1	.1	.0	.0	.2	.9	.9
	4-10	.0	.0	.1	.8	3.1	1.3	.8	*	.0	.0	6.2	6.2
	11-21	.0	.0	.0	1.7	4.4	.7	.1	.0	.0	.0	6.9	6.9
	22+	.0	.0	.0	.3	.7	.0	.0	.0	.0	.0	1.0	1.0
	TOT %	.1	.0	.1	3.0	8.3	2.2	1.0	*	.0	.2	14.9	14.9
10+	0-3	.0	.1	.1	.6	1.6	.9	.8	.0	.0	1.5	5.6	5.6
	4-10	.1	.1	.6	10.5	21.8	10.4	3.1	.2	.0	.0	46.8	46.8
	11-21	.1	*	.2	11.2	13.4	4.4	.2	.1	.0	.0	29.6	29.6
	22+	.0	.0	.0	1.0	.6	*	.0	.0	.0	.0	1.6	1.6
	TOT %	.2	.2	.9	23.2	37.4	15.7	4.1	.3	.0	1.5	83.5	83.5
TOT OBS													1349
TOT PCT		.3	.2	1.1	26.6	46.3	18.3	5.1	.4	.0	1.7	100.0	

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1895-1975

NOVEMBER

AREA 0015 LOBITO
13.65 8.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.2	.0	1.2	12.3	29.9	20.5	2.9	.8	.0	.8	69.7	30.3	244
06009	.0	.7	1.4	13.4	30.4	23.9	5.8	1.8	.7	.7	79.0	21.0	276
12015	.4	.4	2.2	8.8	20.9	16.5	4.0	2.2	.4	.7	56.4	43.6	273
18021	.0	.0	1.5	8.3	29.3	21.4	3.4	1.5	.0	.4	65.8	34.2	266
TOT PCT	4 .4	3 .3	17 1.6	113 10.7	292 27.6	218 20.6	43 4.1	17 1.6	3 .3	7 .7	717 67.7	342 32.3	1059 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.0	.3	.8	19.9	78.1	361
06009	.3	.0	.9	.0	14.1	84.7	333
12015	.3	.0	.9	.3	10.8	87.8	352
18021	.6	.0	.6	.3	15.2	83.3	323
TOT PCT	7 .5	0 .0	9 .7	5 .4	206 15.0	1142 83.4	1369 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.3	2.5	15.5	55.6	28.9	239
06009	.0	2.2	16.2	63.6	20.2	272
12015	.4	3.0	12.4	45.3	42.3	267
18021	.0	1.5	9.6	57.3	33.1	260
TOT PCT	4 .4	24 2.3	139 13.4	576 55.5	323 31.1	1038 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.2	.0	.0	.0	2	.2
80/84	.0	.0	.0	.1	.2	.9	.8	.0	20	1.9
75/79	.0	.0	.1	1.1	6.3	7.2	3.0	.0	190	18.2
70/74	.0	.0	.1	.4	2.7	9.2	9.4	4.4	273	26.1
65/69	.0	.0	.0	.1	3.2	16.6	18.8	3.2	438	41.9
60/64	.0	.0	.0	.0	.2	2.0	5.6	3.0	113	10.8
55/59	.0	.0	.0	.0	.0	.0	.4	.6	10	1.0
TOTAL	0	0	2	7	81	368	441	147	1046	100.0
PCT	.0	.0	.2	.7	7.7	35.2	42.2	14.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.5	.0	.0	.0	.0
.0	.0	.0	.0	.8	.3	.0	.0	.0	.2
.2	.0	.1	1.1	5.8	7.8	2.6	.1	.0	.4
.0	.2	.4	4.1	11.2	7.3	2.2	.2	.0	.5
.1	.1	.5	15.7	20.7	3.3	.6	.0	.0	.9
.0	.0	.0	2.8	6.4	1.2	.3	.1	.0	.0
.0	.0	.0	.1	.9	.0	.0	.0	.0	.0
.3	.3	1.0	23.9	46.0	20.1	6.0	.4	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	78	76	67	62	58	56	68.1	626
06009	84	79	77	68	62	59	56	68.3	444
12015	86	84	80	71	65	62	55	71.4	557
18021	82	79	77	69	64	61	57	69.5	435
TOT	86	80	78	68	63	59	55	69.3	2062

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.1	30.8	46.2	18.8	82	266		
06009	.0	.4	7.8	37.2	38.3	16.4	81	269		
12015	.0	2.6	14.2	43.1	33.0	7.1	77	267		
18021	.0	.4	4.6	29.9	51.7	13.4	82	261		
TOT	0	9	82	375	449	148	80	1063		

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1895-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	TOT	M FUG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.2	.0	.1	.0	4	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.1	.2	.0	5	.1	.4
7/8	.0	.0	.2	.2	.2	.5	.3	.2	.1	17	.0	1.5
6	.0	.0	.1	.0	.2	.2	.0	.2	.1	8	.0	.7
5	.0	.1	.1	.3	.6	.6	.2	.1	.0	22	.0	2.0
4	.0	.0	.0	.6	.9	1.3	.5	.2	.0	39	.2	3.4
3	.0	.0	.2	.6	.6	.6	1.0	.1	.0	35	.0	3.2
2	.0	.0	.5	1.5	1.5	.5	.9	.0	.0	56	.0	5.1
1	.0	.0	.5	3.5	1.7	1.9	1.1	.0	.0	97	.1	8.7
0	.0	.0	1.2	4.8	3.3	1.1	1.6	.1	.0	133	.0	12.1
-1	.1	.5	2.1	7.4	3.8	3.9	1.2	.0	.0	209	.0	19.0
-2	.1	.3	1.9	5.4	3.4	4.4	1.3	.0	.0	184	.0	16.7
-3	.0	.3	1.1	3.8	2.7	3.5	.6	.0	.0	133	.0	12.1
-4	.0	.0	.9	2.3	1.8	1.5	.2	.0	.0	73	.1	6.5
-5	.0	.0	.5	1.9	1.3	.9	.1	.0	.0	51	.0	4.6
-6	.0	.0	.5	.5	.5	.4	.0	.0	.0	21	.0	1.9
-7/-8	.0	.0	.0	.2	.3	.1	.1	.0	.0	7	.0	.6
-9/-10	.0	.0	.1	.2	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.0	.0	.3	.1	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	2	13	112	368	253	238	101	13	2	1102	.5	1097
PCT	.2	1.2	10.2	33.4	23.0	21.6	9.2	1.2	.2	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.4	1.3	.0	.0	.0	.0	1.7
1-2	.0	.5	.0	.0	.0	.0	.5	.0	4.6	1.8	.0	.0	.0	6.4
3-4	.3	.0	.0	.0	.0	.0	.3	.0	2.5	4.8	.0	.0	.0	7.3
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.5	2.9	.1	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.7	.1	.0	.0	.0	1.1	.4	8.9	9.9	.4	.0	.0	19.6

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0015 LOBITO
13.65 8.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.2	.0	.0	.0	.0	4.0	.6	3.7	.1	.0	.0	.0	4.4
1-2	.6	15.3	3.2	.0	.0	.0	19.2	.2	7.6	1.7	.0	.0	.0	9.4
3-4	.2	6.9	10.2	.2	.0	.0	17.6	*	2.7	2.3	.0	.0	.0	5.0
5-6	.0	.6	3.5	.3	.0	.0	4.3	.0	.6	1.2	.0	.0	.0	1.8
7	.0	.3	.9	.1	.5	.0	1.8	.0	.1	.4	.0	.0	.0	.5
8-9	.0	.0	.9	.3	.0	.0	1.1	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	26.3	19.0	1.1	.5	.0	48.5	.8	14.7	5.8	.0	.0	.0	21.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.7	.0	.0	.0	.0	2.1	*	.0	.0	.0	.0	.0	*	
1-2	.3	2.6	.0	.0	.0	.0	2.8	.0	.3	.0	.0	.0	.0	.3	
3-4	.1	.7	.1	.0	.0	.0	.9	.0	*	.1	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	5.0	.3	.0	.0	.0	6.4	*	.3	.1	.0	.0	.0	.4	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	10.5	.1	.0	.0	.0	15.5	
1-2	1.1	30.8	6.6	.0	.0	.0	38.6	
3-4	.6	12.7	17.4	.2	.0	.0	31.0	
5-6	.0	1.7	7.9	.4	.0	.0	10.0	
7	.0	.4	1.5	.2	.5	.0	2.6	
8-9	.0	.0	1.0	.2	.0	.0	1.2	
10-11	.4	.0	.2	.4	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	56.2	34.8	1.5	.5	.0	100.0	801

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	9.3	11.3	4.9	3.4	.2	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	3
6-7	.0	.8	6.3	8.3	5.7	4.7	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	262	6
8-9	.0	1.5	5.9	5.3	4.5	2.0	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	5
10-11	.0	1.0	2.2	2.2	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	4
12-13	.0	.0	.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
>13	.0	.0	.0	.1	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	1.0	3.2	3.5	2.1	.8	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	4
TOTAL	30	153	289	223	144	86	30	7	3	0	0	0	0	0	0	0	0	0	0	965	5
PCT	3.1	15.9	29.9	23.1	14.9	8.9	3.1	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1882-1975AREA 0015 LOBITO
13.65 8.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.3	.4	1.0	.0	.0	.0	.0	1.7	1.0	.0	.4	.0	.1	.0	96.8
S	.8	.5	.7	.0	.0	.0	.0	2.0	1.3	.0	.3	.0	.5	.0	95.8
SW	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.5	.5	97.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	94.7
TOT PCT	.4							1.7	.9	.0	.3	.0	.4	.1	96.7
TOT OBS:	1122														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.7	.4	1.1	.0	.0	.0	.0	2.2	1.1	.0	.4	.0	.4	.0	95.9
06009	.3	.7	1.7	.0	.0	.0	.0	2.8	2.1	.0	.3	.0	.3	.3	94.1
12015	.6	.6	.6	.0	.0	.0	.0	1.9	.6	.0	.3	.0	.6	.0	96.6
18021	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	99.3
TOT PCT	.4	.4	.9	.0	.0	.0	.0	1.7	1.1	.0	.3	.0	.3	.1	96.5
TOT OBS:	1197														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	.5	*	.0	.0	.0	.0	.8	5.1	.7	1.2	.6	.0	1.2	.3	1.2	.0	
NE	*	.2	.0	.0	.0	.0	.0	.3	5.5	.0	.6	.5	.0	.2	1.2	.0	.0	
E	*	.5	.1	.0	.0	.0	.0	.6	8.1	.4	.6	1.2	.5	.8	.0	.2	.0	
SE	.4	16.2	11.4	.2	.0	.0	.0	28.2	10.4	24.8	28.6	27.6	46.2	28.5	31.1	21.1	38.0	
S	2.1	27.1	13.4	.5	.0	.0	.0	43.1	9.6	43.5	42.2	48.5	40.2	44.6	35.1	42.1	40.1	
SW	1.8	12.1	3.6	*	.0	.0	.0	17.6	8.1	20.9	18.0	14.8	8.8	15.8	15.9	23.8	12.6	
W	1.0	4.1	.3	.0	.0	.0	.0	5.4	5.7	5.2	4.4	2.2	2.4	4.1	9.5	9.6	6.8	
NW	.2	1.2	*	.0	.0	.0	.0	1.5	5.8	.9	2.1	.6	1.0	1.9	4.6	1.4	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6							2.6	.0	3.5	2.4	4.0	1.0	2.9	2.4	.6	1.7	
TOT OBS	172	1254	585	14	0	0	2025		9.0	403	169	323	105	418	164	322	121	
TOT PCT	8.5	61.9	28.9	.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	.6	.2	.0	.0	.0	.0	.8	5.1	.9	.5	.9	.9		
NE	.2	.1	.0	.0	.0	.0	.3	5.5	.2	.4	.5	.0		
E	.1	.4	.0	.0	.0	.0	.6	8.1	.5	1.1	.6	.1		
SE	4.8	21.1	2.2	.1	.0		28.2	10.4	25.9	32.2	29.3	25.7		
S	10.8	29.0	3.2	.1	.0		43.1	9.6	43.1	46.4	41.9	41.5		
SW	6.8	10.2	.6	.0	.0		17.6	8.1	20.1	13.3	15.9	20.7		
W	3.9	1.5	*	.0	.0		5.4	5.7	5.0	2.2	5.6	8.9		
NW	1.0	.5	.0	.0	.0		1.5	5.8	1.2	.7	2.6	1.2		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.6						2.6	.0	3.1	3.3	2.7	.9		
TOT OBS	624	1274	123	4	0	2025		9.0	572	428	582	443		
TOT PCT	30.8	62.9	6.1	.2	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1882-1975

DECEMBER

AREA 0015 LOBITO
13.65 8.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.1	5.2	59.8	30.9	.9	.0	.0	9.1	100.0	572
06009	3.3	5.6	60.7	30.1	.2	.0	.0	9.1	100.0	428
12015	2.7	7.6	62.5	26.3	.9	.0	.0	8.6	100.0	582
18021	.9	5.0	65.0	28.4	.7	.0	.0	9.2	100.0	443
TOT	52	120	1254	365	14	0	0	9.0		2025
PCT	2.6	5.9	61.9	28.9	.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.2	.1		4.6
NE	.0	.0	*	.0		7.0
E	.1	.0	.1	.3		6.1
SE	1.8	3.3	10.8	13.3		6.5
S	4.7	5.0	18.4	19.1		6.1
SW	2.7	2.4	7.2	4.7		5.5
W	.7	1.1	1.5	.5		4.7
NW	.0	.1	.0	.0		3.8
VAR	.0	.0	.0	.0		.0
CALM	.1	.3	.7	.3		5.5
TOT OBS	97	114	358	354	923	6.1
TOT PCT	10.5	12.4	38.8	38.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.3	
.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	
.1	*	.1	3.0	10.0	6.2	1.6	.5	.0	.2	7.6	
.0	.2	.3	4.1	11.9	12.1	3.2	.6	.1	.1	14.6	
.0	.0	.0	.8	3.0	3.3	1.2	.2	*	.4	8.2	
.0	.0	.0	.1	.5	.3	.2	.3	.0	.0	2.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.1	.1	.1	.0	.0	.0	.8	
1	2	4	78	236	203	58	16	2	6	317	923
.1	.2	.4	8.5	25.6	22.0	6.3	1.7	.2	.7	34.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	7.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9
= OR >2000	27.1	31.4	31.5	31.5	31.5	31.5	31.5	31.5
= OR >1000	50.9	56.9	57.1	57.1	57.1	57.1	57.1	57.1
= OR >600	58.2	65.1	65.3	65.3	65.3	65.3	65.3	65.3
= OR >300	58.5	65.5	65.7	65.7	65.7	65.7	65.7	65.7
= OR >150	58.5	65.5	65.7	66.0	66.0	66.0	66.0	66.0
= OR >0	58.5	65.6	65.9	66.1	66.1	66.1	66.1	66.1
TOTAL	552	619	621	623	623	623	623	623

TOTAL NUMBER OF OBS: 943

PCT FREQ NH <5/8: 33.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
4.3	7.8	6.8	6.8	7.7	7.6	10.5	15.9	32.4	.0	1024

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1882-1975

DECEMBER

AREA 0015 LOBITO
13.65 8.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.0	.2
2<5	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.4
5<10	PCP	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	3.1	6.3	2.8	.5	.1	.0	.5	13.3	.5
	TOT %	.0	.0	.0	3.2	6.4	2.9	.5	.1	.0	.5	13.6	.5
10+	PCP	.0	.0	.0	.4	.5	.1	.0	.0	.0	.1	1.1	.5
	NO PCP	.5	*	.5	26.2	37.9	14.2	3.8	.2	.0	1.1	84.5	.5
	TOT %	.5	*	.5	26.6	38.5	14.3	3.8	.2	.0	1.2	85.6	.5
TOT OBS													1122
TOT PCT		.5	*	.5	30.1	45.4	17.2	4.3	.3	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.2	.1	*	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	*	.3	.1	*	.0	.0	.0	.0	.5
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2
	4-10	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.4	.1	.0	.0	.0	.1	.8	.8
5<10	0-3	.1	.0	.0	*	.3	.1	.1	.0	.0	.6	1.2	.5
	4-10	.0	.0	*	2.3	4.7	2.2	.5	.1	.0	.0	9.8	.5
	11-21	.0	.0	.0	1.1	2.3	.7	*	.0	.0	.0	4.2	.5
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	15.4	.5
	TOT %	.1	.0	*	3.6	7.5	3.0	.6	.1	.0	.6	15.4	.5
10+	0-3	.1	.0	*	.5	1.9	1.7	.6	.1	.0	1.4	6.2	.5
	4-10	.3	*	.3	14.9	23.7	9.6	2.8	.1	.0	.0	51.9	.5
	11-21	.0	.0	.1	10.2	11.9	2.4	.2	.0	.0	.0	24.8	.5
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.5
	TOT %	.4	*	.4	25.6	37.7	13.7	3.5	.2	.0	1.4	83.1	.5
TOT OBS													1317
TOT PCT		.5	*	.5	29.5	46.1	17.0	4.2	.3	.0	2.1	100.0	

DECEMBER

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1882-1975

AREA 0015 LOBITO
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.5	.0	10.1	26.4	23.1	5.8	1.4	.0	.5	67.8	32.2	208
06009	.4	.4	.4	8.9	29.4	22.6	9.3	1.6	.0	.8	73.8	26.2	248
12015	.0	.0	.4	6.0	17.7	20.8	4.5	2.3	.4	.8	52.8	47.2	265
18021	.0	.0	.8	7.8	26.9	22.0	5.3	1.2	.4	.4	64.9	35.1	245
TOT	1	2	4	78	241	213	60	16	2	6	623	343	966
PCT	.1	.2	.4	8.1	24.9	22.0	6.2	1.7	.2	.6	64.5	35.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.3	.6	.9	17.4	80.8	328
06009	.3	.0	.6	.3	17.9	80.9	329
12015	.3	.0	.3	1.1	15.5	82.8	373
18021	.3	.0	.3	.6	14.3	84.5	322
TOT	3	1	6	10	220	1112	1352
PCT	.2	.1	.4	.7	16.3	82.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.5	10.8	58.3	30.9	204
06009	.4	1.2	10.7	64.6	24.7	243
12015	.0	.4	7.1	48.2	44.7	255
18021	.0	.8	8.7	57.3	34.0	241
TOT	1	7	87	537	319	943
PCT	.1	.7	9.2	56.9	33.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.0	.2	.0	.0	3	.3
80/84	.0	.0	.0	.1	.9	1.9	.8	.0	36	3.7
75/79	.0	.0	.0	.4	3.1	8.7	6.7	1.3	196	20.2
70/74	.0	.0	.0	.2	6.7	19.6	14.8	5.0	448	46.2
65/69	.0	.0	.0	.0	.9	9.5	12.4	4.2	262	27.0
60/64	.0	.0	.0	.0	.0	.2	1.5	.6	23	2.4
55/59	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	8	113	388	351	109	969	100.0
PCT	.0	.0	.0	.8	11.7	40.0	36.2	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0
80/84	.1	.0	.0	.6	1.5	1.0	.6	.*	.*	.0
75/79	.2	.0	.2	2.5	8.4	5.9	2.5	.1	.0	.5
70/74	.2	.0	.3	15.9	20.8	7.5	.9	.2	.0	.5
65/69	.0	.0	.2	11.5	11.9	3.0	.3	.0	.0	.1
60/64	.0	.0	.0	.4	1.9	.1	.0	.0	.0	.1
55/59	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	.5	.0	.6	31.0	44.5	17.6	4.3	.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	79	77	70	65	62	60	70.1	578
06009	86	81	78	70	65	63	59	70.6	436
12015	88	86	81	73	66	63	62	73.4	594
18021	84	81	79	71	66	63	59	71.7	446
TOT	88	83	79	71	65	63	59	71.5	2054

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	5.7	33.7	46.3	13.8	81	246
06009	.0	.4	7.4	38.8	39.3	14.0	80	242
12015	.0	3.0	20.7	46.1	24.7	5.5	75	271
18021	.0	.0	10.9	40.6	36.8	11.7	79	239
TOT	0	10	114	399	364	111	79	998

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1882-1975

DECEMBER

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WU FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.1	.2	4	.0	.4
11/13	.0	.0	.0	.1	.1	.3	.2	.2	9	.0	.8
9/10	.0	.0	.0	.2	.4	.4	.2	.1	13	.0	1.2
7/8	.0	.0	.0	.4	.1	.4	.1	.1	11	.0	1.0
6	.0	.0	.0	.2	.3	.4	.0	.0	9	.0	.8
5	.0	.0	.0	.3	.8	.5	.4	.0	22	.0	2.0
4	.0	.0	.2	1.0	.5	.4	.3	.0	26	.0	2.3
3	.0	.0	.0	.6	1.3	.4	.3	.1	29	.0	2.6
2	.0	.0	.7	1.4	1.8	1.1	.2	.0	57	.1	5.0
1	.0	.2	1.3	3.1	2.3	.5	.2	.0	84	.0	7.6
0	.1	.4	2.5	7.7	2.9	1.7	.4	.0	173	.1	15.5
-1	.0	.5	3.2	9.0	3.7	1.5	.1	.0	201	.0	18.1
-2	.0	.3	2.6	5.9	3.9	2.2	.2	.0	167	.0	15.0
-3	.1	.2	2.5	4.4	3.2	1.8	.0	.0	136	.1	12.2
-4	.0	.7	1.5	3.1	1.6	.9	.0	.0	87	.0	7.8
-5	.0	.3	1.1	1.3	1.4	.2	.0	.0	47	.0	4.2
-6	.0	.1	.2	.4	.3	.0	.0	.0	10	.0	.9
-7/-8	.0	.5	.6	.5	.1	.0	.0	.0	18	.0	1.6
-9/-10	.0	.0	.1	.1	.3	.0	.0	.0	5	.0	.5
-11/-12	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	2	34	184	437	278	140	7	1110	3	1107	
PCT	.2	3.1	16.6	39.4	25.0	12.6	2.5	.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.3	1.4	.1	.0	.0	.0	1.8
1-2	.0	.3	.0	.0	.0	.0	.3	.1	10.4	2.6	.0	.0	.0	13.2
3-4	.0	.0	.1	.0	.0	.0	.1	.0	3.0	4.0	.0	.0	.0	7.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.9	.1	.0	.0	4.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.1	.0	.0	.0	.4	.5	16.4	10.2	.1	.0	.0	27.3

PERIOD: (OVER-ALL) 1963-1975

DECEMBER
TABLE 18 (CONT)AREA 0015 LOBITO
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	3.0	.2	.0	.0	.0		3.9	.6	1.3	.2	.0	.0	.0		2.1
1-2	1.1	17.9	3.3	.0	.0	.0		22.2	.8	7.6	.6	.0	.0	.0		8.9
3-4	.3	9.1	8.0	.1	.0	.0		17.5	.0	2.8	1.7	.0	.0	.0		4.5
5-6	.0	1.4	4.7	.0	.0	.0		6.2	.0	.3	.2	.0	.0	.0		.5
7	.0	.1	.2	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.1	.0	.3	.0	.0		.4	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.2	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.0	31.7	16.7	.4	.0	.0		50.9	1.3	12.0	2.8	.0	.0	.0		16.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.0	.0	.0	.0		.6	.0	.1	.0	.0	.0	.0		.1	
1-2	.2	2.0	.3	.0	.0	.0		2.5	.0	.1	.0	.0	.0	.0		.1	
3-4	.0	.5	.0	.0	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	3.0	.3	.0	.0	.0		3.7	.0	.2	.0	.0	.0	.0		.2	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	6.4	.5	.0	.0	.0	11.4	
1-2	2.3	37.6	6.6	.0	.0	.0	46.5	
3-4	.3	15.2	13.5	.1	.0	.0	29.1	
5-6	.0	3.3	7.7	.1	.0	.0	11.1	
7	.0	.3	.4	.0	.0	.0	.7	
8-9	.0	.1	.3	.3	.0	.0	.7	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	62.9	29.5	.5	.0	.0	100.0	731

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
6-7	1.5	11.0	12.0	5.6	2.0	1.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	303	3
8-9	.0	1.3	9.2	11.6	3.6	1.7	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	5
10-11	.0	.3	2.1	5.5	1.9	1.1	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	6
12-13	.0	.0	.4	.8	1.0	.7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
>13	.0	.0	.0	.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
INDET	2.5	2.5	6.9	4.5	2.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	4
TOTAL	35	139	278	251	107	54	18	2	6	0	0	0	0	0	0	0	0	0	0	890	4
PCT	3.9	15.6	31.2	28.2	12.0	6.1	2.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1866-1976

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	1.2	.0	1.3	.0	.0	.0	.0	2.5	.0	3.3	3.3	.0	.6	.0	90.2
NE	4.2	1.7	.0	.0	.0	.0	.0	5.9	3.6	2.6	1.5	.0	.9	.0	88.1
E	.8	.0	1.4	.0	.0	.0	.0	2.1	.8	1.7	2.7	1.4	2.2	.0	90.0
SE	.2	.3	.8	.0	.0	.0	.0	1.3	1.0	.1	.3	.0	.3	.0	95.9
S	.3	.3	.7	.0	.0	.0	.0	1.2	.7	.4	.8	.1	.8	.1	95.9
SW	.3	.2	.7	.0	.0	.0	.0	1.2	.7	.6	1.1	.1	1.2	.0	95.0
W	.4	.0	.2	.0	.0	.0	.0	.6	.2	.8	.0	.0	2.0	.0	96.4
NW	.8	1.1	1.0	.0	.0	.0	.0	2.9	1.1	.2	2.4	.0	2.0	.0	91.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	.4	1.4	.0	.0	.0	.1	2.5	2.0	.4	4.4	.0	.8	.0	89.9
TOT PCT	.3	.3	.7	.0	.0	.0	*	1.3	.8	.4	.8	.1	.8	*	95.8
TOT OBS: 14161															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	.3	.3	1.0	.0	.0	.0	.0	1.7	.9	1.0	.9	.1	.6	.1	94.9
06009	.5	.4	1.1	.0	.0	.0	.0	2.0	1.3	.1	1.2	.1	.8	.1	94.5
12015	.2	.2	.4	.0	.0	.0	*	.7	.6	*	.8	*	1.2	*	96.5
18021	.3	.2	.6	.0	.0	.0	.0	.9	.5	.3	.4	*	.6	*	97.3
TOT PCT	.3	.3	.8	.0	.0	.0	*	1.3	.8	.4	.8	.1	.8	.1	95.8
TOT OBS: 14537															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	.5	*	.0	.0	.0		.9	4.7		.8	.9	1.0	.3	1.2	1.0	.8	.1
NE	.2	.4	*	.0	.0	.0		.6	5.1		.4	.9	1.1	.3	.8	.6	.3	.1
E	.2	.5	.1	*	.0	.0		.8	6.9		.5	1.2	1.5	1.1	.9	.3	.5	.5
SE	.7	12.5	14.4	1.5	.1	*		29.2	12.0		26.3	25.3	28.9	42.9	31.5	28.1	25.5	39.8
S	2.2	23.6	15.9	1.5	.1	.0		43.3	10.5		44.5	43.6	46.8	42.7	41.8	39.3	41.8	45.1
SW	1.5	11.1	3.2	.2	*	.0		16.0	8.1		18.1	19.1	13.7	9.2	14.3	17.4	19.8	9.3
W	.9	3.1	.3	*	.0	.0		4.3	6.1		4.4	3.9	2.2	1.5	3.8	7.9	6.6	3.2
NW	.4	1.2	.1	.0	.0	.0		1.6	5.6		1.5	2.2	.8	.7	1.7	3.1	1.9	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		3.5	2.9	3.9	1.2	4.1	2.2	2.9	1.0
TOT OBS								25599			5120	2316	4281	1270	5114	2168	4043	1287
TOT PCT	9.7	52.9	34.2	3.1	.2	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00 03	06 09	12 15	18 21	
N	.7	.1	*	.0	.0		.9	.8	.9	1.2	.6		
NE	.5	.1	*	.0	.0		.6	5.1	.9	.7	.3		
E	.5	.3	*	.0	.0		.8	6.9	.7	1.4	.7	.5	
SE	4.4	19.2	5.2	.4	*		29.2	12.0	26.0	32.1	30.5	28.9	
S	10.6	26.8	5.5	.4	*		43.3	10.5	44.2	45.9	41.0	42.6	
SW	6.7	8.7	.7	*	.0		16.0	8.1	18.5	12.7	15.2	17.2	
W	2.8	1.4	*	.0	.0		4.3	6.1	4.3	2.0	5.0	5.8	
NW	1.2	.4	*	.0	.0		1.6	5.6	1.7	.8	2.1	1.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.2				.0		3.2	.0	3.3	3.3	3.5	2.4	
TOT OBS						25599		9.8	7436	5551	7282	5330	
TOT PCT	30.6	57.0	11.5	.9	*		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1866-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.3	6.3	52.2	34.6	3.4	.2	.0	9.9	100.0	7436
06009	3.3	5.9	53.0	34.9	2.8	.2	.0	9.8	100.0	5551
12015	3.5	7.4	53.3	32.6	3.0	.2	*	9.6	100.0	7282
18021	2.4	6.2	53.0	35.0	3.2	.1	.0	10.0	100.0	5330
TOT								9.8		25599
PCT	3.2	6.5	52.9	34.2	3.1	.2	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	.1	.2		6.2
NE	*	*	.1	.1		6.3
E	.1	.1	.2	.3		5.4
SE	2.5	3.2	11.0	19.0		6.4
S	5.6	5.2	15.6	19.3		6.1
SW	2.2	2.0	4.3	4.9		5.6
W	.5	.4	.8	1.0		5.5
NW	.1	.1	.2	.3		5.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.4	.9	1.1		5.5
TOT OBS					11916	6.1
TOT PCT	11.8	11.5	33.3	43.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	*	.0	.1	.1	*	*	*	*	.0	.2	
.0	.0	.0	*	.1	.1	*	*	*	.0	.1	
.0	.0	.0	.1	.1	.1	*	*	*	.0	.3	
*	.3	3.2	11.1	7.4	2.3	.4	.1	.2	7.6		
.1	.1	.4	4.9	13.3	9.5	2.3	.5	.2	14.1		
.1	.1	1.1	3.0	2.2	.6	.1	.1	.2	5.8		
*	*	*	.2	.6	.4	.2	.1	*	1.4		
*	.0	.0	.1	.2	.1	*	*	*	.3		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
*	.0	*	.3	.5	.6	.2	*	*	1.4		
.3	.2	.9	10.0	28.9	20.4	5.8	1.1	.5	.7	31.2	11916
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>3500	6.7	8.1	8.2	8.2	8.2	8.2	8.2	8.2
>2000	22.7	28.2	28.6	28.7	28.7	28.7	28.7	28.7
>1000	47.7	56.7	57.4	57.4	57.5	57.5	57.5	57.5
>600	55.8	66.5	67.3	67.4	67.4	67.4	67.4	67.4
>300	56.3	67.3	68.2	68.3	68.3	68.3	68.3	68.3
>150	56.4	67.5	68.3	68.4	68.5	68.5	68.5	68.5
>0	56.5	67.7	68.6	68.7	68.8	68.8	68.8	68.8

TOTAL NUMBER OF OBS: 12122

PCT FREQ NH <5/8: 31.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBS	TOTAL OBS
5.7	5.2	6.5	6.7	6.6	6.2	9.8	14.5	38.6	.2	12967

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1886-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	*	.1	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	*	.0	*	*	.0	.0	*	
	NO PCP	*	*	*	*	.1	*	.0	*	.0	.1	.3	
	TOT %	*	*	*	*	.1	*	*	*	.0	.1	.3	
1<2	PCP	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	*	.1	.1	.1	*	.0	*	.3	
	TOT %	*	*	*	.1	.1	.1	.1	*	.0	*	.4	
2<5	PCP	.0	.0	.0	.1	.1	*	.0	.0	.0	*	.2	
	NO PCP	*	*	*	.2	.4	.2	*	*	.0	.1	1.1	
	TOT %	*	*	*	.3	.5	.3	*	*	.0	.2	1.3	
5<10	PCP	*	*	*	.2	.2	.1	*	*	.0	*	.5	
	NO PCP	.2	.1	.1	3.9	8.2	2.6	.8	.2	.0	.9	17.0	
	TOT %	.2	.1	.1	4.1	8.4	2.6	.8	.3	.0	.9	17.5	
10+	PCP	*	.0	.0	.2	.2	*	*	*	.0	*	.5	
	NO PCP	.3	.2	.6	26.7	36.2	10.9	2.3	.6	.0	2.1	79.9	
	TOT %	.3	.2	.6	26.9	36.4	10.9	2.3	.6	.0	2.1	80.4	
TOT OBS													14129
TOT PCT		.5	.4	.8	31.4	45.7	13.9	3.2	.9	.0	3.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
	4-10	.0	*	*	*	*	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	*	*	*	.1	*	.0	.0	.0	.0	.1	
1/2<1	0-3	*	*	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	*	.0	*	*	.1	*	.0	.0	.0		.1	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.3	
1<2	0-3	*	*	*	*	*	*	*	.0	.0	*	.1	
	4-10	.0	*	.0	*	.1	.1	*	*	.0	.0	.2	
	11-21	.0	.0	.0	*	*	*	*	.0	.0		.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	.1	.2	.1	.1	*	.0	*	.4	
2<5	0-3	*	.0	.0	*	.1	*	*	*	.0	.2	.3	
	4-10	*	*	*	.1	.3	.2	*	*	.0		.7	
	11-21	.0	.0	.0	.2	.2	.1	.0	.0	.0		.5	
	22+	.0	.0	.0	*	*	*	.0	.0	.0		*	
	TOT %	*	*	*	.3	.6	.3	*	*	.0	.2	1.5	
5<10	0-3	.1	.1	*	.1	.4	.3	.2	.1	.0	.9	2.1	
	4-10	.1	.1	.1	1.6	4.2	1.8	.5	.1	.0		8.4	
	11-21	*	*	*	2.4	3.4	.5	.1	*	.0		6.5	
	22+	.0	.0	.0	.2	.4	*	.0	.0	.0		.7	
	TOT %	.2	.1	.1	4.4	8.4	2.6	.7	.2	.0	.9	17.6	
10+	0-3	.1	*	.1	.6	1.8	1.0	.3	.2	.0	2.0	6.1	
	4-10	.2	.1	.3	11.9	20.5	7.6	1.7	.3	.0		42.7	
	11-21	*	*	.2	14.2	13.1	1.9	.1	*	.0		29.5	
	22+	.0	.0	*	1.1	.6	.1	.0	.0	.0		1.7	
	TOT %	.3	.2	.6	27.8	36.0	10.5	2.1	.5	.0	2.0	80.1	
TOT OBS													16209
TOT PCT		.5	.3	.8	32.7	45.3	13.5	3.0	.8	.0	3.1	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1866-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.8	.1	.8	9.8	29.1	19.9	5.1	1.0	.5	.4	67.6	32.4	2798
06009	.4	.4	1.2	11.5	32.3	21.6	7.3	.9	.5	.9	76.9	23.1	3305
12015	.1	.2	.7	8.2	24.3	19.5	5.1	1.3	.7	1.1	61.3	38.7	3256
18021	.2	*	.7	9.8	27.5	19.8	5.4	1.4	.1	.5	65.4	34.6	3011
TOT PCT	.3	.2	.9	9.8	28.3	20.2	5.7	1.2	.5	.7	67.8	32.2	12370 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.2	.3	.2	1.9	19.5	77.9	4164
06009	.2	.4	.4	1.5	18.0	79.4	4119
12015	.1	.3	.8	1.1	16.4	81.2	4435
18021	.2	.1	.2	1.3	17.7	80.6	3871
TOT PCT	.2	.3	.4	1.5	17.9	79.8	16589 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	< 150 < 50 YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.8	1.8	13.6	56.1	30.3	2715
06009	.3	2.0	14.6	63.2	22.1	3257
12015	.1	1.1	10.1	52.4	37.5	3186
18021	.2	1.0	11.7	54.7	33.6	2964
TOT PCT	.3	1.5	12.5	56.7	30.8	12122 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	*	.0	.0	*	.0	*	*
85/89	.0	.0	*	*	.1	.2	.1	*	.3	*
80/84	.0	*	*	.1	.9	2.2	1.8	.3	5.3	*
75/79	.0	.0	*	.3	2.2	7.9	6.3	1.6	18.3	*
70/74	.0	.0	*	.4	3.4	12.0	11.1	2.9	29.9	*
65/69	.0	.0	.0	.3	2.4	11.0	10.6	3.2	27.4	*
60/64	.0	.0	.0	*	.7	4.7	8.6	2.8	16.7	*
55/59	.0	.0	.0	.0	*	.1	.7	1.0	1.9	*
TOTAL PCT	.0	*	.1	1.2	9.7	38.0	39.2	11.8	11175	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	.0	.0	.0	.0
.0	*	*	.1	.1	.1	*	*	.0	*
.1	*	.1	.8	2.2	1.4	.4	.1	.0	.3
.1	.1	.2	4.6	8.0	3.7	.9	.1	.0	.5
.1	.1	.2	10.0	13.9	3.9	.9	.2	.0	.6
.2	.1	.2	10.3	12.2	2.8	.7	.2	.0	.8
.1	*	.1	6.3	7.6	1.7	.3	.2	.0	.3
*	*	*	.2	1.3	.2	*	*	.0	.1
.6	.4	.7	32.4	45.3	13.9	3.2	.8	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	78	76	69	63	59	49	68.9	7478
06009	91	78	76	69	63	59	52	69.2	5562
12015	92	83	79	72	65	61	48	71.9	7273
18021	91	79	77	70	64	60	50	70.0	5366
TOT	92	80	77	70	63	60	48	70.1	25679

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	5.4	32.8	45.6	15.7	82	2902		
06009	.0	.9	7.6	35.5	40.5	15.6	81	2919		
12015	.0	2.6	17.8	44.1	29.0	6.4	76	2944		
18021	.0	.9	7.4	39.5	42.5	9.8	80	2674		
TOT	0	140	1088	4328	4514	1369	80	11439		

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1966-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	63	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	77	.0	.6
7/8	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.0	135	.0	1.0
6	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	79	.0	.5
5	.0	.0	.0	.1	.3	.3	.4	.3	.2	.1	.0	232	.0	1.8
4	.0	.0	.0	.2	.4	.5	.4	.4	.3	.2	.0	298	.0	2.2
3	.0	.0	.0	.2	.4	.4	.6	.4	.2	.1	.0	302	.0	2.2
2	.0	.0	.1	.6	1.2	1.0	1.0	.8	.4	.1	.0	685	.0	5.1
1	.0	.0	.1	.9	1.5	1.4	1.5	.9	.4	.0	.0	903	.0	6.7
0	.0	.0	.4	2.5	2.8	2.8	2.7	1.7	.6	.0	.0	1790	.1	13.3
-1	.0	.0	.6	3.1	3.8	3.8	4.0	1.8	.5	.0	.0	2333	.1	17.5
-2	.0	.0	.6	2.9	4.0	3.6	3.8	1.6	.5	.0	.0	2261	.1	16.8
-3	.0	.1	.4	1.7	3.0	3.3	2.6	1.2	.1	.0	.0	1643	.1	12.2
-4	.0	.0	.4	1.4	1.9	1.8	1.5	.9	.2	.0	.0	1076	.1	8.0
-5	.0	.0	.2	.9	1.2	1.3	1.1	.4	.1	.0	.0	674	.1	5.0
-6	.0	.0	.1	.5	.5	.5	.4	.1	.0	.0	.0	273	.0	2.0
-7/-8	.0	.0	.1	.3	.6	.6	.4	.1	.0	.0	.0	292	.0	2.1
-9/-10	.0	.0	.0	.3	.2	.2	.2	.0	.0	.0	.0	118	.0	.9
-11/-13	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	55	.0	.4
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL												13334		
PCT	*	.3	3.0	15.7	21.9	21.9	21.1	11.4	4.0	.6	.1	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2
1-2	.2	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.3	1.4	.1	.0	.0	.0	1.9
1-2	.2	.0	.0	.0	.0	.0	.3	.2	7.5	2.7	.0	.0	.0	10.5
3-4	.0	.0	.1	.0	.0	.0	.1	.0	3.2	7.6	.1	.0	.0	11.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.4	.3	.0	.0	5.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.4	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.2	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.2	.0	.0	.0	.6	.6	13.3	16.9	1.2	.0	.0	31.9

PERIOD: (OVER-ALL) 1963-1976

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	3.4	.2	.0	.0	.0		4.4	.5	1.8	.1	.0	.0	.0		2.5
1-2	.9	15.4	3.2	.1	.0	.0		19.4	.4	5.8	.8	.0	.0	.0		7.0
3-4	.2	5.9	8.0	.1	.0	.0		14.2	.1	1.6	.9	.0	.0	.0		2.6
5-6	.0	1.0	4.4	.2	.0	.0		5.6	.0	.3	.5	.0	.0	.0		.8
7	.0	.2	1.4	.2	.0	.0		1.9	.0	.0	.1	.0	.0	.0		.2
8-9	.0	.0	.4	.2	.0	.0		.6	.0	.0	.0	.0	.0	.0		.1
10-11	.0	.0	.2	.1	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.9	25.9	17.9	1.0	.0	.0		46.8	1.0	9.5	2.5	.1	.0	.0		13.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.6	.0	.0	.0	.0		.8	.1	.2	.0	.0	.0	.0		.2	
1-2	.1	1.1	.1	.0	.0	.0		1.3	.0	.2	.1	.0	.0	.0		.3	
3-4	.0	.3	.1	.0	.0	.0		.4	.0	.1	.0	.0	.0	.0		.1	
5-6	.0	.1	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	2.1	.2	.0	.0	.0		2.7	.1	.5	.1	.0	.0	.0		.7	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.3	7.7	.5	.0	.0	.0	14.4	085
1-2	2.0	30.1	6.8	.0	.0	.0	38.9	
3-4	.3	11.0	16.5	.3	.0	.0	28.1	
5-6	.0	2.3	9.3	.5	.0	.0	12.1	
7	.0	.4	3.0	.6	.1	.0	4.1	
8-9	.0	.1	.8	.4	.0	.0	1.4	
10-11	.0	.0	.3	.2	.0	.0	.6	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.7	51.7	37.3	2.2	.1	.0	100.0	9533

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	9.5	9.6	4.6	2.1	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3347	3
6-7	.0	1.7	7.2	8.3	4.8	2.3	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2931	5
8-9	.0	.8	2.8	4.5	3.7	2.1	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1776	6
10-11	.0	1.0	1.5	1.9	1.1	1.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	824	6
12-13	.0	.0	.8	.6	.6	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	310	6
13-14	.0	.0	.0	.3	.3	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	8
INDET	3.2	3.6	5.1	3.4	2.0	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2196	4
TOTAL																				11520	5
PCT	5.4	16.6	27.0	23.7	14.6	7.5	3.5	.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1866-1976

TABLE 20

AREA 0015 LOBITO
13.75 8.3E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.3	*	*	.0	.0	.0	.0	.0	.1	*	10	*
85/86	.1	.5	1.0	.9	.3	.0	.0	.0	.0	.0	.1	*	61	.2
83/84	.9	3.3	6.7	4.1	1.7	.0	.0	.0	.2	.0	.1	.3	359	1.5
81/82	5.2	10.7	13.8	12.7	6.2	.3	.0	.1	.1	.1	1.2	3.9	1124	4.6
79/80	8.7	12.7	13.0	11.2	7.9	1.2	.0	*	.2	.5	2.8	5.7	1321	5.4
77/78	11.7	14.5	18.9	17.9	10.1	3.5	.2	*	.1	1.3	8.4	7.6	1943	7.9
75/76	15.1	19.9	19.1	19.2	15.2	6.6	1.7	.2	.3	4.2	8.2	8.5	2444	9.9
73/74	21.4	19.6	16.1	16.2	17.8	14.4	5.3	1.4	2.3	7.3	9.1	15.4	3016	12.3
71/72	15.8	9.7	6.1	9.5	14.7	16.8	10.1	5.4	7.6	9.1	10.1	19.0	2741	11.2
69/70	9.8	4.0	2.4	4.0	10.9	17.1	17.4	11.2	8.3	8.9	14.3	18.2	2584	10.5
67/68	4.9	2.7	1.4	1.9	6.7	16.0	18.5	20.9	14.6	18.0	20.6	13.3	2841	11.6
65/66	3.2	1.2	.6	1.4	3.7	11.0	17.6	21.2	18.3	19.0	14.0	5.0	2365	9.6
63/64	2.4	.9	.6	.8	3.2	7.2	17.8	21.0	27.2	19.9	7.5	2.1	2241	9.1
61/62	.7	.1	*	.2	1.0	3.1	7.2	11.5	14.2	6.7	2.5	.7	965	3.9
59/60	.0	.1	.0	*	.5	1.7	2.8	5.5	4.8	4.0	.7	.1	412	1.7
57/58	.0	.0	.0	*	.1	.9	1.1	1.2	1.3	.8	.4	.0	116	.5
55/56	.0	.0	.0	.0	.0	.1	.2	.2	.3	.1	.1	.0	21	.1
53/54	.0	.0	.0	.0	.0	.1	.0	*	.1	.0	.1	.0	6	*
51/52	.0	.0	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	3	*
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	4	*
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2138	1976	2109	2057	2174	1932	2177	2036	1840	2165	1970	2003	24577	100.0
MEAN	73.7	75.7	76.9	76.0	73.4	69.5	66.9	65.5	65.3	67.0	69.9	72.0	70.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1011	1013	1013	1013	1011	1011	1013	1012	1710
FEB	1012	1011	1012	1013	1012	1010	1011	1012	1012	1575
MAR	1012	1010	1012	1013	1012	1010	1011	1012	1011	1574
APR	1012	1012	1013	1014	1013	1011	1011	1014	1012	1609
MAY	1014	1013	1014	1015	1014	1013	1013	1015	1014	1613
JUN	1016	1015	1016	1017	1016	1014	1016	1017	1016	1499
JUL	1017	1017	1017	1019	1017	1016	1016	1018	1017	1727
AUG	1017	1016	1017	1018	1017	1015	1016	1018	1017	1618
SEP	1016	1015	1016	1017	1016	1015	1015	1016	1016	1343
OCT	1014	1013	1015	1016	1015	1013	1014	1015	1014	1731
NOV	1013	1012	1014	1015	1013	1011	1012	1014	1013	1573
DEC	1013	1012	1013	1014	1013	1011	1012	1013	1013	1600
ANN	1014	1013	1014	1015	1014	1013	1013	1015	1014	19172
OBS	4004	1234	3741	741	4024	1168	3522	738		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1005	1008	1011	1012	1014	1016	1019	1021
FEB	1004	1006	1008	1010	1012	1013	1016	1019	1021
MAR	1002	1005	1007	1010	1011	1013	1015	1018	1020
APR	1003	1007	1008	1011	1012	1014	1016	1020	1022
MAY	1007	1008	1010	1012	1014	1015	1018	1020	1023
JUN	1006	1010	1012	1015	1016	1018	1020	1022	1024
JUL	1006	1011	1013	1016	1017	1019	1020	1022	1025
AUG	1010	1011	1013	1015	1017	1018	1020	1022	1025
SEP	1008	1010	1012	1014	1016	1017	1019	1021	1024
OCT	1006	1008	1010	1013	1014	1016	1017	1019	1022
NOV	1004	1008	1009	1012	1013	1015	1017	1018	1021
DEC	1004	1007	1009	1011	1013	1014	1016	1018	1022